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DR-961 January 1978



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METEOROLOGICAL DATA REPORT

14819A LANCE MISSILE NO. 3315, ROUND NO. 309 APT (25 JANUARY 1978)

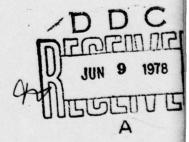
BY

WSMR METEOROLOGICAL TEAM

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ATMOSPHERIC SCIENCES LABORATORY WHITE SANDS MISSILE RANGE, NEW MEXICO



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UNITED STATES ARMY ELECTRONICS COMMAND

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DR-961	. 3. RECIPIENT'S CATALOG NUMBER
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INTRODUCTION

14819A Lance, Missile Number 3315, Round Number 309 APT, was launched from LC-39, White Sands Missile Range (WSMR), New Mexico, at 1133 HRS MST, 25 January 1978. The scheduled launch time was 1130 HRS MST.

DISCUSSION

Meteorological data were recorded and reduced by the WSMR Meteorological Team, Atmospheric Sciences Laboratory (ASL), WSMR, New Mexico. The data are presented in the following tabulations.

ELEVATION	4,064	FEET/MSL
PRESSURE	877.9	MBS
TEMPERATURE	6.7	°c
RELATIVE HUMIDITY	35	%
DEW POINT	-7.5	°c
DENSITY	1,090	GM/M ³
WIND SPEED	02	мрн
WIND DIRECTION	240	DEGREES
CLOUD COVER	CLEAR	

TABLE I. SURFACE OBSERVATIONS TAKEN AT LC-39, 1130 HRS MST/25 JANUARY 1978.

ACCESSION	ter				- :
HTIS		White	Sec	ties	2
806		Buff	Sect	9.5	
BRAHNGUNG	ED				
JUSTIFICAT	10#				
BY	156			•••	
erstribut Diet.					-
DISTRIBUT	AVAIL				-
DISTRIBUT					-
DISTRIBUT					-

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	9033	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR	CALM		1 [2100	333	08.0
100	200	00.5	LL neds	2200	327	07.5
200	. 239	00.5	81	2300	326	07.5
300	270	01.5		2400	324	07.0
400	264	02.0	180	2500	327	10.0
500	258	02.0		2600	331	13.5
600	254	00.5	# 200000 #55 5.8	2700	333	15.0
700	292	01.5	N the times	2800	335	16.5
800	330	02.0		2900	335	16.0
900	338	03.5		3000	334	15.5
1000	349	05.0		3100	338	16.0
1100	348	05.0	9.44	3200	343	16.5
1200	347	05.5	100	3300	342	19.0
1300	350	07.0		3400	341	21.5
1400	353	08.0		3500	345	19.0
1500	344	06.5		3600	349	17.0
1600	334	05.0	000.3	3700	350	20.5
1700	3,34	05.5	260	3800	351	24.0
1800	335	06.0	288	3900	353	25.0
1900	336	07.5	749	4000	355	26.0
2000	337	09.0		4100	353	28.0

TABLE II. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 1
RELEASED FROM LC-39, AT 1120 MST/25 JANUARY 1978
14819A LANCE, MISSILE NO. 3315, ROUND NO. 309 APT.

PIBAL RELEASE POINT WSTM COORDINATES:

X = 530,938.82 Y = 186,564.96 Z = 4,063.75

APPROXIMATELY: 1 MILE SOUTH OF LAUNCHER.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
4200	352	30.5
4300	352	27.5
4400	353	24.5
4500	351	24.5
4600	348	25.0
4700	348	27.0
4800	348	28.5
4900	348	28.0
5000	349	27.5
5100	346	26.0
5200	344	24.0
5300	344	25.5
5400	344	27.0
5500	345	29.5
5600	346	32.0
5700	346	32.0
5800	345	32.5
5900	345	33.0
6000	345	33.5
6100	347	34.0
6200	348	34.5
5300	349	35.0
5400	350	36.0
5500	350	37.0
6600	350	38.0

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
6700	350	39.0
6800	351	39.5
6900	350	40.5
7000	349	41.5
7100	350	41.5
7200	351	41.5
7300	350	42.0
7400	349	43.0
7500	348	40.5
7600	348	38.5
7700	348	39.5
7800	348	40.5
7900	347	39.0
8000	347	38.0
8100	345	39.5
8200	343	41.0
8300	343	41.5
8400	342	42.0
8500	342	40.0
8600	343	37.5
8700	341	39.5
8800	339	41.0
8900	339	39.5
9000	338	38.5
. 7 0	SER DER HER	

TABLE II. (CONT)

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR	240	02.0	2100	326	08.0
100	210	01.5	2200	325	10.0
200	180	00.5	2300	328	11.0
300	265	02.0	2400	332	12.0
400	347	03.5	2500	332	14.0
500	337	03.0	2600	333	16.5
600	327	03.0	2700	338	18.5
700	334	04.0	2800	343	20.0
800	332	04.5	2900	343	18.0
900	337	04.0	3000	344	16.0
1000	342	03.5	3100	340	16.0
1100	337	04.0	3200	337	15.5
1200	333	04.0	3300	340	16.0
1300	330	04.0	3400	342	16.0
1400	327	03.5	3500	343	15.5
1500	322	04.0	3600	344	15.5
1600	318	04.5	3700	346	18.5
1700	316	05.0	3800	348	21.5
1800	312	05.0	3900	349	22.5
1900	304	05.5	4000	350	23.0
2000	297	06.0	4100	350	24.0

TABLE III. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 2
RELEASED FROM LC-39, AT 1130/25 JANUARY 1978
14819A LANCE, MISSILE NO. 3315, ROUND NO. 309 APT.

PIBAL RELEASE POINT WSTM COORDINATES:

X = 530,938.82 Y = 186,564.96 Z = 4,063.75

APPROXIMATELY: 1 MILE SOUTH OF LAUNCHER.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
4200	350	25.5
4300	. 349	25.5
4400	348	25.5
4500	347	25.0
4600	345	24.0
4700	345	24.0
4800	346	24.0
4900	346	25.0
5000	347	26.5
5100	347	26.0
5200	346	25.0
5300	345	25.0
5400	344	24.5
5500	344	27.5
5600	344	30.0
5700	344	30.5
5800	344	31.0
5900	346	33.0
6000	347	34.5
6100	347	35.0
6200	347	35.5
6300	348	35.5
6400	349	35.5
6500	349	37.0
6600	349	38.5

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
6700	349	39.0
6800	349	39.5
6900	349	40.5
7000	350	41.5
7100	350	42.0
7200	350	42.5
7300	349	43.0
7400	348	43.0
7500	348	41.5
7600	348	40.5
7700	348	41.0
7800	347	42.0
7900	346	41.0
8000	345	40.0
8100	345	40.5
8200	344	41.0
8300	343	39.5
8400	342	38.0
8500	341	38,0
8600	340	38.0
8700	340	37.5
. 8800	340	37.0
8900	338	38.0
9000	336	38.5

TABLE III. (CONT)

STATION	UDE	SABA.JU FEET MSL
25 JAN . 78		1145 HRS MST

0		
14	2	S
>	0	0
نيا	0	Z
_	0	4
-	02	V)
Z	C	W
A	3	-
C	2	-
-	0	T
4		-
-		
Z		
9		
-		
. 1		

TABLE IV.

6F0DETIC COORDINATES 32.40043 LAT DEG 106.37033 LON DEG

PRESSURE	GEO METR	E MP	ATUR	
	4	AIR	DEWPOINT	RCE
MILLIBAR	SL FEE	DEGREES	ENT IGR	
8	3989.0	5.3	7	38.0
			8-8	42.0
50.	972.	•	5	
.80	7599.2	4.4-	13.	48.0
58	7932.1	4.7-	N	46.0
. 67	8945.4	-3.2		40.0
00	0029.	-2.3	•	42.0
45	2437.	-7.1	-17.5	45.0
16	3308.	-7.1	•	
66	-3	-7.1	-14.3	37.0
39	6681.		24.	
00	8 568	-17.8	-29.2	
15	9811.		-	
33	3920.	29.	0	+
C	8848.			33.0
Cr	. 4440	3		
50	4364.			
28	6229	5		
9	8470.	.00		
19	1233.	-59.6		
62	3226.	S		
50	4865.	3		
43	5854.	41		
22	8984.	5		
00	3149.	0		
	8580.	9		
0	0219.			
1.	1112.	57.		
55.8	817	-05.2		
,	7012.	64.		

STATION ALTITUJE 3909.JU FELT MSL 25 JAN. 78 1145 HRS MST ASCENSION NO. 65

SIGNIFICANT LEVEL DATA U250023765 LHITE SANDS

TABLE IV. (CONT)

DELPOINT TEMPERATURE AIR

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET

REL.HUM. PERCENT

DEGREES CENTIGRADE

-58.4 -61.1

73202.6 77364.1

36.8 30.0

149.4 20.0 85728.5 13.0 100309.0 8.9 162797.6

6E00ETIC C00R0INATES 32.40043 LAT DEG 106.37033 LON DEG

7

STATION ALTITUJE 3989.JU FEET MSL 25 JAN. 78 1145 HRS MST ASCENSION NO. 65

UPPER AIF DATA 0250323045 WHITE SAMOS TABLE V.

GEODETIC COORDINATES 32.40043 LAT DEG 100.37033 LON DEG

STATION ALTITUDE 3929.UU FEET MSL 22 JAN. 78 1145 HRS *ST ASCENSION NO. 65

UPFER AIR DATA 0253020065 WHITE SANDS TABLE V. (CONT)

GEODETIC COORTINATES 32.4U043 LAT DEG 106.37033 LON DEG

#ILLIBARS DEGREES CENTIGRADE METER KNOTS DEGREES CENTIGRADE METER METER METER KNOTS DEGREES CENTIGRADE METER MET		GEOMETRIC	PRESSURE	TEMP	PERATURE	RFL.HUM.	DENSITY	JALLE OF	ALAU UNIN		INOFA
16500.0 601.4 -17.6 -29.0 36.0 683.3 622.9 19500.0 481.3 -19.2 -33.0 35.3 660.1 620.0 20100.0 481.3 -19.2 -33.0 35.3 660.1 620.0 201000.0 481.3 -20.2 -33.0 34.0 660.1 620.9 20500.0 481.3 -22.5 -33.0 34.0 638.5 660.1 620.9 20500.0 482.7 -22.5 -33.0 34.0 638.5 612.3 612.3 21300.0 492.7 -23.7 -35.1 34.0 642.3 612.3 612.3 22500.0 424.5 -22.5 -33.2 34.0 642.3 612.3 612.4 22500.0 424.5 -22.1 -37.2 34.0 612.2 612.4 22500.0 424.5 -22.1 -37.2 34.0 612.4 612.4 612.4 612.4 612.0 612.4 612.4 612.0 612.4 612.0 612.4 612.0 612.4 612.0 612.4 612.0 612.4 612.0 612.4 612.0 612.4 612.0 612.0 612.4 612.0 6		ALTITUDE 4SL FEET		A IR DEGREES	NT	PERCENT		SOUND	DIRECTION	SPEED	OF REFRACTION
19000.0 491.2 -18.5 -33.0 35.3 671.7 621.6 201000.0 471.5 -20.2 -30.9 34.0 660.1 620.9 201000.0 471.5 -20.2 -30.9 34.0 638.5 618.3 215000.0 452.7 -23.7 -23.0 34.0 638.5 618.3 215000.0 442.7 -23.7 -35.1 34.0 628.3 610.8 225000.0 442.7 -23.7 -35.1 34.0 618.2 612.4 225000.0 424.9 -24.9 -37.2 34.0 648.5 612.4 23500.0 415.7 -27.3 -38.3 34.0 548.5 612.4 24500.0 415.7 -27.3 -38.3 34.0 548.5 612.4 24500.0 390.0 -29.7 -40.4 34.0 576.6 609.5 25500.0 390.0 -29.7 -40.4 34.0 576.6 609.6 25500.0 390.0 -29.7 -40.8 34.0 570.2 601.0 25500.0 390.0 -37.3 -33.0 -43.5 33.9 550.4 601.0 25500.0 373.3 -33.0 -43.5 33.9 560.4 606.6 25500.0 372.4 -37.3 -47.5 33.3 560.6 695.2 25500.0 372.4 -37.3 -47.5 33.5 560.4 600.6 27500.0 372.4 -37.3 -47.5 33.5 560.4 477.7 594.1 27500.0 372.4 -37.3 -47.5 33.3 560.4 477.7 594.1 27500.0 372.4 -37.3 -47.5 33.3 477.7 594.1 27500.0 372.4 -47.5 33.3 46.6 596.7 46.6 596.7 477.7 594.1 31000.0 295.2 -40.4 -55.8 19.5** 477.7 594.1 31000.0 272.7 -40.4 -50.4 41.8 560.4 45.6 596.7 475.7 594.7 478.7 594.7 394.7 478.7 594.7 394.7 478.7 594.7 394.7 478.7 594.7 394.7 478.7 594.7 394.7 478.7 594.7 478		16500.0	501.4	-17.6	-29.0	36.0	683.3	6.22	319.6	44.5	1.000155
19500.0 461.3 -19.2 -30.9 34.5 660.1 ¢20.9 20000.0 471.5 -20.2 -33.0 34.0 640.9 519.6 20500.0 461.7 -21.3 -33.0 34.0 640.9 519.6 215000.0 452.1 -22.5 -34.0 34.0 640.3 510.3 215000.0 452.1 -22.5 -34.0 34.0 640.3 510.3 22500.0 424.5 -20.1 -35.2 34.0 640.3 512.9 640.3 512.9 22500.0 424.5 -20.1 -37.2 34.0 640.3 512.9 640.3 512.0 425.5 -20.1 -37.2 34.0 578.0 640.3 512.9 24500.0 407.1 -28.5 -40.4 34.0 578.0 640.3 512.9 24500.0 398.6 -29.7 -40.4 34.0 578.0 640.0 64		19300.0	491.2	-18.5	-33.0	35.3	671.7		518.9	45.0	1.000153
201000-0 471.5 -20.2 -31.9 34.0 646.9 619.8 205000-0 461.7 -21.3 -33.0 34.0 638.5 618.3 610.8 215000-0 452.1 -22.5 -33.0 34.0 618.2 615.2 615.2 215000-0 452.5 -24.9 -36.2 34.0 618.2 615.2 615.2 22000.0 452.5 -24.9 -36.2 34.0 646.3 615.2 22000.0 452.5 -26.1 -37.2 34.0 646.3 615.4 22500.0 415.7 -22.1 -38.3 34.0 598.5 612.4 23500.0 415.7 -28.5 -39.4 34.0 598.5 612.4 24500.0 398.6 -29.7 -40.8 34.0 598.5 612.4 64.0 590.0 10.9 398.6 -29.7 -40.8 34.0 590.0 600.0 500.0 398.6 -30.8 -41.5 53.9 560.4 605.6 605.2 550.0 398.3 -33.0 -41.5 53.0 550.0 605.2 550.0 605.2 550.0 350.0 355.2 -34.1 -44.5 33.0 552.9 601.0 599.7 24500.0 342.0 -37.3 -41.5 33.0 522.9 601.0 599.7 24500.0 342.0 -37.3 -41.5 33.0 490.5 522.9 601.0 599.7 24500.0 342.0 -37.3 -41.5 33.0 490.5 522.9 601.0 599.7 24500.0 342.0 -37.3 -44.5 33.3 500.0 552.0 601.0 599.7 240.0 313.1 -41.6 -55.8 19.5 4 479.7 594.1 479.7 594.1 479.7 594.1 31000.0 292.4 -45.1 470.0 292.4 45.1 470.0 292.4 45.1 470.0 336.0 336.0 336.0 336.0 336.0 336.0 470.0 292.4 -45.1 470.0 593.0 470.0 342.0 470.0 593.0 470.0		19500.0	461.3	-19.2	-30.9	34.5	666.1		319.9	46.0	1.000150
20500.0 461.7 -21.3 -33.0 34.0 638.5 618.3 21300.0 452.1 -22.5 -34.0 34.0 628.3 610.8 213000.0 452.7 -23.7 -35.1 34.0 618.2 610.8 22500.0 424.5 -22.1 -37.2 34.0 648.5 612.4 22500.0 424.5 -22.1 -37.2 34.0 648.5 612.4 22500.0 424.5 -22.1 -37.2 34.0 648.5 612.4 22500.0 424.5 -22.1 -37.2 34.0 589.0 612.4 22500.0 424.5 -22.1 -37.2 34.0 589.0 610.4 22500.0 390.0 -22.1 -30.8 -41.5 33.9 570.2 617.4 600.6 24500.0 390.0 -30.8 -41.5 33.9 570.2 617.4 600.6 22500.0 390.0 -31.3 -41.5 33.9 550.4 600.6 605.2 2500.0 390.0 390.0 -43.5 33.9 520.0 522.4 600.0 22500.0 392.0 -41.5 33.3 500.0 522.4 600.0 22500.0 392.0 -41.5 33.3 500.0 522.4 600.0 22500.0 392.0 -41.5 33.3 500.0 522.0 520.0 200.0 392.0 -41.6 -55.8 19.5** 411.1 592.8 3100.0 292.4 -41.6 -55.8 19.5** 411.1 592.8 3100.0 292.4 -41.6 -55.8 19.5** 411.1 592.8 3100.0 292.4 -41.8 -55.8 19.5** 411.1 592.8 3100.0 285.0 -40.4 -50.1 3100.0 247.1 -41.8 -50.8 3100.0 247.1 -41.8 -50.8 3100.0 247.1 -41.8 -50.8 3100.0 272.7 -49.1 416.1 500.0 247.1 -41.8 -50.8 3100.0 26.4 -50.1 41.8 3100.0 26.4 -50.8 3100.0 272.7 -40.8		20300.0	411.5	-20.5	-31.9	34.0	6.040		341.5	+0+	1,333147
21300.u 452.1 -22.5 -34.0 34.0 61E.2 615.5 615.5 22300.0 442.7 -23.7 -35.1 34.0 61E.2 615.5 615.5 223000.0 442.7 -22.7 -37.2 34.0 61E.2 615.5 615.5 223000.0 424.5 -26.1 -37.2 34.0 596.5 612.4 225000.0 424.5 -26.1 -37.2 34.0 596.5 612.4 23500.0 415.7 -27.2 -39.4 34.0 596.5 612.4 23500.0 398.6 -29.7 -40.4 34.0 577.6 609.4 24500.0 398.6 -29.7 -40.4 34.0 577.6 609.4 24500.0 398.6 -29.7 -40.4 34.0 577.6 609.4 24500.0 398.6 -29.7 -40.5 53.9 560.4 600.6 605.2 25000.0 397.3 -33.0 -43.5 53.7 541.3 603.6 2500.0 377.3 -35.2 -40.5 53.7 541.3 603.6 2500.0 377.3 -35.2 -40.5 33.5 53.7 541.3 603.6 2500.0 374.6 -37.3 -47.5 33.5 53.7 572.7 596.7 22.5 600.0 374.0 -37.3 -47.5 33.5 55.1 603.6 596.7 22.5 600.0 374.0 -37.3 -47.5 33.5 55.1 603.6 596.7 22.5 600.0 374.0 -37.3 -47.6 -55.4 47.5 33.3 56.6 596.7 37.3 -47.6 -36.5 596.7 47.7 594.1 592.6 37.3 -47.6 -37.3 -47.6 55.1 47.7 594.1 592.0 37.3 -47.6 -37.3 -47.6 55.1 47.7 594.1 592.0 37.3 -47.6 -37.3 -47.6 55.1 47.7 594.1 47.7 592.6 47.6 596.7 592.0 596.7		20500.0	461.7	-21.3	-33.0	34.0	638.5	618.3	323.9	40.1	1.000144
21500.0 442.7 -23.7 -35.1 34.0 616.2 615.5 22500.0 433.5 -24.9 -36.2 34.0 606.3 612.4 22500.0 424.5 -26.1 -37.2 34.0 598.5 612.4 23500.0 415.7 -27.3 -38.3 34.0 579.6 609.4 24500.0 398.6 -29.7 -40.4 34.0 577.6 607.4 609.4 24500.0 398.6 -29.7 -40.4 34.0 577.6 607.4 600.4 24500.0 398.6 -29.7 -40.4 34.0 577.6 607.2 607.4 24500.0 398.6 -29.7 -40.4 34.0 577.6 607.2 607.4 24500.0 398.5 -31.9 -42.5 33.9 560.4 605.2 607.6 2500.0 373.3 -33.0 -43.5 550.4 605.2 607.6 2500.0 373.3 -33.0 -47.5 33.5 550.4 605.2 570.6 607.6 2500.0 347.6 -35.2 -46.5 33.5 550.4 607.6 596.7 24500.0 347.6 -36.4 -47.5 33.5 550.4 472.7 597.1 272.4 275.0 320.2 -40.0 -51.4 29.9 4 477.1 597.1 597.1 275.0 275.1 -41.6 -55.8 19.5 4 46.0 591.4 275.1 272.4 272.4		21000.0	452.1	-22.5	-34.0	34.0	628.3		325.2	46.3	1,033142
225000.0 433.5 -24.9 -36.2 34.0 598.5 612.4 225000.0 424.5 -26.1 -37.2 34.0 588.5 612.4 23500.0 415.7 -27.5 -38.3 34.0 589.5 612.4 23500.0 415.7 -27.5 -39.4 34.0 574.6 610.4 24.000.0 398.6 -29.7 -40.4 34.0 574.6 610.4 610.4 24.000.0 398.6 -30.8 -41.5 53.9 560.4 610.6 610.4 2500.0 391.5 -31.9 -42.5 33.8 560.4 610.6 610.6 2500.0 373.3 -33.0 -43.5 53.7 560.4 610.6 610.6 2500.0 373.3 -33.0 -43.5 53.7 560.4 610.6 2500.0 373.3 -35.2 -40.5 33.0 550.4 610.6 610.6 2500.0 373.3 -35.2 -40.5 33.0 550.4 610.6 510.6 2500.0 349.6 -30.2 -40.5 33.0 50.2 540.1 572.4 570.0 340.0 -37.3 -47.5 33.3 560.6 590.7 27.500.0 342.0 -30.2 -40.6 55.1 47.5 33.3 560.0 590.7 27.5 -40.0 -55.8 19.5 + 47.1 1 592.6 591.4 47.1 1 592.6 591.4 47.1 1 592.0 591.4 47.1 1 592.0 591.4 47.1 1 592.0 591.4 47.1 1 592.0 591.4 47.1 1 570.0 591.4 47.1 1 570.0 591.4 1 570.0 591.4 1 570.0 591.4 1 570.0 591.4 1 570.0 591.4 1 570		21500.0	442.7	-23.7	-35.1	34.0	618.2		3.46.0	46.8	1.000140
22500.0 424.5 -26.1 -37.2 34.0 598.5 612.4 23000.0 415.7 -27.5 -38.3 34.0 589.0 610.9 23500.0 407.1 -28.5 -39.4 34.0 579.6 609.4 24500.0 390.6 -29.7 -40.4 34.0 577.6 609.4 24500.0 390.0 -30.8 -41.5 33.9 560.4 606.6 25500.0 373.3 -33.0 -43.5 33.9 560.4 606.6 25500.0 373.3 -33.0 -43.5 33.0 522.9 601.0 25500.0 357.3 -35.2 -44.1 -44.5 33.5 522.9 601.0 25500.0 349.6 -36.2 -40.5 33.5 522.9 601.0 25500.0 349.6 -36.2 -40.5 33.3 506.2 598.3 25500.0 354.0 -36.4 -40.5 33.3 506.9 596.9 25500.0 354.0 -36.4 -40.5 55.6 19.5** 477.7 594.1 25500.0 272.1 -41.6 -55.6 19.5** 477.1 592.6 31000.0 272.1 -41.6 -55.6 19.5** 478.1 592.6 32500.0 272.1 -41.8 43.7 44.8 45.3 564.9 591.4 32500.0 272.1 -41.8 43.7 593.1 416.7 591.4 32500.0 272.1 -49.1 501.4 32500.0 272.1 -49		22000.0	433.5	-24.9	-36.2	34.0	6.86.3		325.5	47.4	1. 100137
23500.0 415.7 -27.5 -38.3 34.0 589.0 010.9 23500.0 407.1 -28.5 -39.4 34.0 579.6 609.4 24.00 398.6 -29.7 -40.4 34.0 570.2 037.9 24500.0 398.6 -29.7 -40.4 34.0 570.2 037.9 24500.0 390.0 -30.8 -41.5 53.9 550.4 605.2 25500.0 531.3 -33.0 -44.5 532.7 550.4 605.2 25500.0 357.3 -33.0 -44.5 532.7 550.4 605.2 25500.0 349.6 -35.2 -44.5 33.0 522.9 601.3 603.6 2500.0 349.6 -35.2 -46.5 33.0 522.9 601.0 22.000.0 349.6 -36.4 -49.5 33.3 505.2 596.7 25500.0 349.6 -36.4 -49.6 33.3 500.0 249.6 350.1 601.0 596.7 250.0 320.2 -40.0 -51.4 29.9*** 477.1 592.0 320.0 249.2 -43.7 -62.5 49.6 35.1 446.0 536.0 320.0 272.7 -49.1 47.5 33.3 446.0 536.0 330.0 272.7 -49.1 550.0 441.8 592.0 441.8 592.0 441.8 592.0 441.8 592.0 441.8 592.0 441.8 592.0 593.1 416.7 583.1 416.7 583.1 583.0 330.0 272.7 -49.1 592.0 441.8 500.0 272.7 -49.1 592.0 441.0 592.0 593.1 416.7 583.1 593.0 593		22500.0	424.5	-26.1	-37.2	34.0	598.5	612.4	3.4.9	47.9	1.000135
23500.0 407.1 -28.5 -39.4 34.0 579.6 609.4 24.00.0 398.6 -29.7 -40.4 34.0 570.2 0.07.9 24.00.0 390.0 -30.8 -41.5 53.9 560.4 606.6 2500.0 340.0 -30.8 -41.5 53.9 560.4 606.6 2500.0 341.5 -31.9 -42.5 33.8 550.6 605.2 2500.0 342.0 355.2 -44.5 33.0 -44.5 53.7 541.3 603.6 2000.0 342.0 -35.2 -46.5 33.5 522.9 601.0 22.4 22.500.0 342.0 -37.3 -47.5 33.3 505.2 598.3 22.000.0 342.0 -37.3 -47.5 33.3 505.2 598.3 22.000.0 342.0 -37.3 -47.5 33.3 505.2 598.3 22.000.0 342.0 -43.6 -51.4 29.9** 479.7 594.1 592.8 320.0 -292.4 -45.1 592.8 19.5** 462.0 591.4 32500.0 272.1 -41.6 -55.8 19.5** 462.0 591.4 32500.0 272.1 -41.6 -51.4 29.9** 473.1 592.8 33.0 272.1 -41.6 -51.4 29.9** 473.1 592.8 33.0 250.0 272.1 -41.6 -51.4 29.9** 473.1 592.8 33.0 250.0 272.1 -41.6 -51.4 29.9** 431.3 544.9 591.1 32500.0 272.1 -41.6 -50.4 431.3 544.9 591.1 32500.0 272.7 -49.1 501.4 431.3 544.9 591.4 431.3 544.9 591.4 431.3 544.9		23000.0		-27.5	-38.3	34.0	589.0	610.9	325.0	47.3	1,000133
245000.0 398.6 -29.7 -40.4 34.0 570.2 0.07.9 245000.0 390.0 -30.8 -41.5 53.9 560.4 606.6 25000.0 331.5 -31.9 -42.5 33.8 550.6 605.2 255000.0 373.3 -33.0 -43.5 53.7 541.3 603.6 2000.0 373.3 -35.2 -44.5 33.0 522.9 601.0 27000.0 349.6 -36.2 -46.5 33.5 522.9 601.0 27000.0 349.6 -36.2 -40.5 33.3 505.2 598.3 28500.0 34.0 -37.3 -47.5 33.3 505.2 598.3 28500.0 34.0 -37.3 -49.6 55.8 496.6 599.7 28500.0 320.2 -40.0 -55.8 19.5** 477.1 594.1 29500.0 292.4 -45.1 -41.6 -55.8 19.5** 462.0 591.4 31,000.0 292.0 -40.4 45.1 47.8 35.0 588.3 31,000.0 272.7 -40.4 45.1 47.8 583.1 594.9 32,000.0 272.7 -49.1 47.8 583.1 350.1 416.7 581.4		23500.0		-28.5	-39.4	34.0	579.6	4.604	324.7	47.1	1.000130
24500.0 390.0 -30.8 -41.5 53.9 560.4 606.6 25003.0 331.5 -31.9 -42.5 33.8 550.4 605.2 25000.0 373.3 -33.0 -43.5 33.7 541.3 603.6 20300.0 373.3 -33.0 -43.5 33.5 522.9 601.0 22500.0 349.6 -35.2 -46.5 33.5 522.9 601.0 22500.0 342.0 -37.3 -47.5 33.3 505.2 598.3 22003.0 349.6 -36.4 -48.5 33.3 505.2 598.3 22003.0 349.6 -36.4 -48.5 33.3 505.2 598.3 22003.0 320.2 -40.0 -51.4 29.9** 479.7 594.1 292.8 29000.0 320.2 -40.0 -51.4 29.9** 479.7 594.1 592.8 30030.0 299.4 -42.7 -62.5 9.2** 462.0 590.1 31003.0 292.4 -45.1 -47.6 -55.8 19.5** 462.0 590.1 32500.0 299.1 -47.7 -62.5 9.2** 438.9 586.0 332.0 272.7 -49.1 45.1 438.9 586.0 438.9 33200.0 272.7 -49.1 32500.0 272.7 -49.1 32500.0 272.7 -49.1 32500.0 272.7 -49.1 32500.0 272.7 -49.1 32500.0 272.7 -49.1 32500.0 272.7 -49.1 3100.0 272.7 -49.1 32500.0 272.7 -49.1 32500.0 272.7 -49.1 32500.0 272.7 -49.1 32500.0 272.7 -49.1 32500.0 272.7 -49.1 32500.0 272.7 -49.1 32500.0 272.7 -49.1 32500.0 272.7 -49.1 32500.0 272.7 -49.1 32500.0 272.7 -49.1 32500.0 272.7 -49.1 32500.0 272.7 -49.1 250.1 410.1 200.0 272.7 -49.1 200.0 272.0 272.7 -49.1 200.0 272.0 272.7 -49.1 200.0 272.7 -49.1 200.0 272.7 -49.1 200.0 272.7 -49.1 200.0 272.7 -49.1 200.0 272.7 -49.1 200.0 272.7 -49.1 200.0 272.7 -49.1 200.0 272.7 -49.1 200.0 272.7 -49.1 200.0 272.7 -49.1 200.0 272.7 -49.1 200.0 272.7 -49.1 200.0 272.7 -49.1 200.0 272.7 -49.1 200.0 272.7 -49.1 200.0 272.7 -49.1 200.0 272.7 -49.1 200.0 272.7 -49.1 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 2	9	24300.0		-29.7	40.4	34.0	570.2		323.8	47.6	1, 000126
313.3 -31.9 -42.5 33.8 550.8 605.2 353.0 -43.5 33.0 -44.5 33.0 -44.5 33.0 -44.5 33.0 -43.5 33.0 -43.5 33.0 -44.5 33.0 -45.5 33.0 -45.5 33.0 -45.5 33.0 -45.5 33.0 -45.5 33.0 -45.5 33.0 -45.5 33.0 -45.5 33.0 -45.5 33.0 -45.5 33.0 -45.5 33.0 -45.5 33.0 -45.5 33.0 -45.5 33.0 -45.5 33.0 -45.5 33.0 -45.5 33.0 -45.5 -45.5 33.0 -45.5 -45.5 33.0 -45.5 -45		24500.0		-30.8	-41.5	53.9	560.4		122.1	47.8	1.000126
313.3 -33.0 -43.5 33.7 541.3 603.6 357.3 -35.2 -46.5 33.0 -45.5 33.5 349.6 -36.2 -46.5 33.5 35.5 347.0 -37.3 -47.5 33.3 348.6 -36.2 -46.5 33.3 320.2 -40.6 -40.6 596.7 320.2 -40.6 -51.4 29.9** 479.7 594.1 200.2 -40.6 -55.8 19.5** 462.6 591.4 249.2 -43.7 -62.5 9.2** 462.0 591.4 245.6 -40.4 -45.1 592.6 272.7 -49.1 -47.8 272.7 -49.1 -47.8 272.7 -49.1 -47.8 272.7 -49.1 -47.8 272.7 -49.1 -47.8		25000.0		-31.9	-42.5	33.8	550.4		1.025	48.0	1, 330124
355.2 -34.1 -44.5 33.6 522.4 601.0 349.6 -36.2 -46.5 33.5 33.5 522.9 601.0 349.6 -36.2 -46.5 33.3 36.4 504.0 599.7 342.0 -37.3 -40.5 33.3 505.2 596.3 33.3 320.2 -40.6 -34.6 -34.6 35.1 448.1 595.5 596.7 594.1 592.6 596.7 594.1 592.6 596.7 594.1 592.6 596.7 594.1 592.6 596.1 592.6 596.1 592.6 59		25500.0		-33.0	-43.5	33.7	541.3		219.3	48.4	1.000121
357.3 -35.2 -45.5 33.5 522.9 601.0 349.6 -36.2 -46.5 33.4 514.0 599.7 342.0 -37.3 -47.5 33.3 505.2 598.3 354.6 -36.4 -48.5 33.2 496.6 596.7 320.2 -40.6 -51.4 29.9** 479.7 594.1 320.2 -40.6 -51.4 29.9** 477.1 592.8 345.0 -43.7 -62.5 9.2** 452.0 591.4 249.2 -43.7 -62.5 9.2** 452.0 591.4 272.7 -49.1 47.8 272.7 -49.1 47.8		20000.0		-34.1	-44.5	33.0	532.1		318.6	48.7	1, 111119
349.6 -36.2 -46.5 33.4 514.0 599.7 342.0 -37.3 -47.5 33.3 505.2 598.3 35.4 554.6 -36.4 -48.5 33.2 496.6 596.7 327.4 -39.5 -49.6 35.1 468.1 595.5 590.2 -40.6 -51.4 29.9** 479.7 594.1 592.8 320.2 -41.6 -55.8 19.5** 462.0 591.4 299.2 -43.3 -45.5 591.4 292.6 450.1 292.4 -45.1 592.8 272.7 -49.1 476.0 538.3 564.4 590.1 285.6 -40.4 590.1 446.0 538.3 564.4 590.1 285.7 583.1 416.7 583.1		26500.0		-35.2	-45.5	33.5	522.9		117.7	48.6	1.000117
342.0 -37.3 -47.5 33.3 505.2 598.3 554.6 -36.4 -40.5 33.2 496.6 596.4 327.4 -39.5 -49.6 35.1 468.1 595.5 320.2 -40.0 -51.4 29.9** 479.7 594.1 513.1 -41.6 -55.8 19.5** 471.1 592.8 506.1 -42.7 -62.5 9.2** 462.0 591.4 292.4 -45.1 -47.8 272.7 -49.1 47.8 272.7 -49.1 41.8		27000.0		-36.2	-46.5	35.4	514.0		316.3	48.5	1.000115
327.4 -39.5 -49.6 33.2 496.6 596.7 320.2 -40.0 -51.4 29.9** 479.7 594.1 320.2 -40.0 -51.4 29.9** 477.1 592.6 536.1 -42.7 -62.5 19.5** 462.0 591.4 299.2 -43.1 -45.1 62.5 4.2** 466.0 536.5 292.4 -45.1 64.0 64.1 650.1 200.1 -41.0 64.0 650.1 650.1 200.1 -41.0 650.1 65		2,500.0		-37.3	-47.5	33.3	505.2	598.3	314.1	48.2	1.000113
327.4 -39.5 -49.6 35.1 468.1 595.5 320.2 -40.0 -51.4 29.9** 479.7 594.1 592.6 35.6 19.5** 471.1 592.6 35.6 19.5** 471.1 592.6 591.4 299.2 -43.7 -62.5 9.2** 462.0 591.4 659.4 690.1 292.4 -45.1 -45.1 460.0 536.5 272.7 -49.1 -47.8 272.7 -49.1 416.7 501.4		26003.0	354.6	-36.4	-48.5	33.2	4.96 *	596.7	511.7	47.9	1.1000.1
320.2 -40.0 -51.4 29.9** 479.7 594.1 513.1 -41.6 -55.6 19.5** 471.1 592.6 506.1 -42.7 -62.5 9.2** 462.0 591.4 299.4 -45.1 -45.1 285.6 -40.4 272.7 -49.1 266.4 -50.4		205000	327.4	-39.5	9.64-	35.1	466.1	5.65.5	309.1	47.8	1.000109
313.1 -41.6 -55.6 19.5** 471.1 592.6 506.1 -42.7 -62.5 9.2** 462.0 591.4 299.2 -43.7 -62.5 9.2** 454.4 590.1 292.4 -45.1 446.0 538.3 272.7 -49.1 47.8 272.7 -49.1 260.4		29000.0	320.2	0.04-	-51.4	29.9**	479.7	594.1	346.8	48.0	1.930107
506.1 -42.7 -62.5 9.2** 462.0 591.4 299.2 -43.7 -62.5 9.2** 454.4 590.1 292.4 -45.1 446.0 538.3 285.6 -40.4 43E.9 586.6 272.7 -49.1 264.9		24560.0	313.1	-41.6	-55.8	14.5**	7	₹65.8	304.6	48.5	1.000105
292.4 -45.1 285.6 -40.4 272.7 -49.1 266.4 -50.4		33000.0	1.965	-42.7	-62.5	4.2.4	462.0		301.7	49.1	1, 933103
285.6 -46.4 436.9 586.6 279.1 -47.8 272.7 -49.1 436.7 583.1 436.7 583.1		30500.0	2.44.2	-43.7			454.4	590.1	2.945	40.0	1.000101
285.6 -40.4 43E.9 586.6 279.1 -47.8 272.7 -49.1 425.4 583.1 266.4 -50.4		31000.0	292.4	1.6h-			0.944	0	545.5	48.9	1.030099
272.7 -49.1 24.2 272.7 -49.1 289 250.4 250.4 250.4 250.4 250.4 250.4 250.4 289		31500.0	285.6	1.04-			436.9		292.5	48.1	1.000096
272.7 -49.1 289 266.4 -50.4 +16.7 581.4 289		32000.0	279.1	9.19-			431.3	L)	291.1	47.2	1.000096
266.4 -50.4 28.4 28.9		32500.0	1,5	-49.1			423.7	:83	8.603	46.8	1.000094
		33000.0	99	-50.4			10	581	289.1	47.2	1.000093

UPPER AIR DATA	4253020:165	WHITE SANDS	TABLE V. (CONT)
	STATION ALTITUJE 3989. JU FEET MSL	1145 HRS "ST	
	STATION ALTITUL	25 JAN . 76	ASCENSION NO.

TES	DEG	936
COOKDINA	LAT	LON
	32.40043	7033
GEODETIC	32.4	106.57033
GE OD		7

INDEX	OF REFRACTION	1.000001	1.000090	1.000086	1, 130086	1.000085	1. 333083	1.000081	1.330079	1.000078	1.000070	1.000075	1.000073	1.000071	1.000069	1.000066	1.713986	1.000064	1,000063	1.000061	1, 390060	1.000056	1.000056	1.000055	1, 100053	1.000052	1,000051	1.000050	1, 333049	1.000046	1,000047
T A	SPEED	48.6	51.8	2.95	62.3	68.5	4.9	9009	84.8	88.1	88.5	88.7	86.0	87.7	88.7	89.0	6.04	89.6	89.5	198	88.4	91.6	86.6	85.2	83.7	9.70	81.4	79.1	16.6	73.3	1.69
WIND DATA	CIRECTION DEGREES(IN)	288.6	238.4	288.8	7.687	5.063	291.5	292.5	0.467	295.3	2.967	8.963	8.567	5.44.5	292.8	291.1	739.6	267.9	285.8	284.1	6.797	242.7	282.8	262.7	202.6	262.1	281.5	8.033	280.0	279.1	278.1
SPEED OF	SOUND	9-615	577.9	£16.3	515.2	574.0	572.9	571.9	571.1	510.5	569.4		567.7	568.1	4. boc		209		เก		270	270	571	573		572.5	271.0	571.4	571.1	570.9	570.0
	GM/CHPIC METER	40504	402.6	395.4	387.0	379.9	372.3	364.7	357.0	349.4	342.0	334.6	327.6	319.3	311.2	303.2	295.5	2c6.1	2,81.0	274.0	207.2	200.1	252.9	245.9	239.5	234.7	229.7	224.4	219.2	214.2	2002
RFL.HUM.	PERCENT																														
	DEW POINT ENTIGRADE																														
œ	CENT																														
TEMPERA		-51.8	-53.1	-54.3	-55.2	-56.0	4.96-	-57.6	-58.3	-58.9	-59.6	-60.2	-60.8	-60.5	-60.3	0.09-	-59.7	-59.5	+.65-	-59.2	-59.1	-58.5.	-57.7	-56.8	-56.4	-57.6	-57.9	-58.0	-58.5	-58°4	-58.6
œ	A 1R EGREES C	7	54.3 -53	248.4 5	242.5 -5	236.7	36000.0 231.1 -56.9	225.6	250.5	214.9	2.607	204.6	199.7		190.2 -60.3		81.1		112.4 -59.4	66.3		-58.	156.4 -57.7	-56	-56-	16- 6.	42.3 -57	35- 9.	35.2 -58	-58.	.8 -58

UPPER AIR DATA U253323355 TABLE V. (CONT)

> STAILON ALTITUDE 5909.JU FEET MSL 22 JAN. 78 1145 HRS PST ASCENSION NO. 62

5E0DETIC C00RDIMATES 32.40043 LAT DEG 106.37033 LON DEG

GEOMETRIC	PRESSURE	TEN	PERATURE	KEL.HUM.	DENSITY	SPEFU OF	WIND DATA	TA	INDEX
ALTITUDE		A IR	DEWPOINT	PERCENT	GE/CUBIC	SOUND	LIMECTION	SPEEP	- 0F
MSL FEET	WILL IBARS	DEGREES	CENTIGRADE		METER	KNOTS	DEGREES(TN)	KNOTS	REF RACTION
40500.0	125.7	-58.6			204.3	1.072	277.1	6.99	1.000046
44000.0	122.7	-59.0			199.6	570.1	276.4	63.0	1,000044
45500.0	119.7	-59.5			195.2	4.593	3.613	01.0	1.000043
50300.0	116.8	-60.1			191.0	564.7	274.9	59.1	1,330043
50500.0	114.0	-60.0			166.8	568.0	1.413	57.7	1.000042
51000.0	111.2	-61.1			182.7	507.3	276.1	57.9	1,000041
51500.6	108.5	-61.7			176.7	566.6	278.0	56.5	1.000040
52000.0	135.8	-62.2			174.8	505.8	281.1	60.3	1,330039
52560.0	103.3	1.20-			170.9	565.1	263.9	62.0	1.000036
53003.0	1.001	-63.2			167.2	564.4	284.7	60.3	1,930037
53500.0	98.2	-63.7			163.4	563.8	4.682	58.7	1.000036
54000.0	95.8	7-49-			159.7	505.1	485.0	55.3	1. 000036
54500.0	43.4	1-64.7			156.1		463.6	50.7	1.000075
55000.0	91.1	1.69-			152.5		282.1	46.9	1,939034
55500.0	8.88	-65.6		,	149.1	561.2	461.4	45.6	1.000032
50303.0	85.6	-60.1			145.7	500.6	280.7	44.2	1,131672
50506.0	4.40	-00-5			142.4	560.0	2.003	43.8	1.000132
57000.0	82.3	0.19-			139.1	559.3	280.8	43.0	1.000031
57500.0	86.3	-67.5			136.0	558.7	\$60.6	45.4	1.000636
58000.0	78.3	-67.9			132.9	558.1	279.9	39.8	1,000030
56500.0	76.3	-68.4			149.9	557.4	279.0	37.2	1.000029
59000.0	74.4	-67.0			125.8	559.4	278.9	33.8	1.930028
54500.0	72.6	-65.1			121.5	561.9	278.8	30.5	1.000027
0.00000	70.8	-63.5		,	117.5	504.5	280.8	26.1	1,000026
60500.0	0.60	8.09-			113.3	567.7	284.1	26.3	1.000025
61000.0	4-10	-57.9			109.1	571.5	287.2	24.8	1.000024
61500.0	65.7	-58.1			106.5	571.3	288.3	23.7	1.000024
0.2003.0	64.1	-54.5			104.4	559.8	288.5	22.6	1,00003
00	62.0	-66.3			102.4	268.4	287.1	22.1	1.000023
63000.0	91.0	-61.3			100.4	507.0	683.8	21.8	1.030022

UPFER AIR DATA

UZESUZJUES WHITE SANDS TABLE V. (CONT)

STATION ALTITUDE 3969.00 FELT MSL 25 JAN. 78 1145 HRS MST ASCENSION NO. 65

GEODETIC COORNINATES 32.40043 LAT DEG 106.37033 LON DEG

J. GT JMO35	PRESCHIRE	TENDE	PERATURE	WITH THE	DENSITY	SPEED OF	ATAG GATA	1.4	TNOFX
ALTITUDE	1000000	A TR		PERCENT	L	SOUND	CIRECTION	SPEER	90
WSL FEET	WILL IBARS	DEGREES	CENTI GRADE		WETER	KANTS	DEGREFS(TN)	KNOTS	REFRACTION
0.506.0	54.5	-62.4			48.4	565.6	5.60.6	21.6	1.000022
64900.0	58.1	-63.5			96.5	564.1	217.6	21.7	1.000021
64500.0	50.7	-64.5			94.6	562.7	1.47×	21.6	1,000021
650003	55.3	D-69-			92.5	562.1	413.6	19.0	1,00001
65500.0	53.4	-64.3			0.06	563.0	:72.5	17.6	1.000020
6.00009	52.6	-63.6			87.5	563.9	2/1.4	14.8	1,000001
66500.0	51.3	-63.0			85.0	564.8	5.072	11.4	1.000019
6 7000.0	50.0	-04.3			82.7	505.1	7.897	8.0	1.00016
67500.0	40.8	-62.2			9.09	565.8	205.5	6.3	1.000018
660009	47.6	-62.1			78.6		260.1	**	1,00017
0.00589	40.4	-62.0			76.6	566.1	\$25.4	3.8	1.000017
0.00069	45.3	6.19-			7.47	566.2	756.0	3.5	1.000017
0.00569	. 44.2	-61.8			72.9	50003	256.7	3.2	1.000016
7.3000.0	43.1	1-19-			71.1	260.5	258.2	2.8	1.000016
73500.0	42.1	-61.6			69.3	566.6	200.8	2.4	1.000015
71000.0	41.0	-61.5			67.6	2000	204.5	1.4	1,000015
71500.6	0.04	-61.4			6.50		9.813	1.2	1.000015
72009.0	39.1	-61.3			64.2		5<1.5	80.	1.000001
72500.0	36.1	-61.2			62.6	567.1	14.6	1.1	1.000014
73000.0	37.2	-61.1			61.1	507.3	43.0	2.0	1.030014
73500.0	36.3	6.09-			56.5	567.6	25.6	3.0	1.000013
7.000.0	35.4	-60.0			58.0	508.0	25.2	0.4	1,000013
74500.0	34.5	-60.3			50.5	568.4	14.2	4.7	1.000013
75030.0	33.7	6.65-			55.0	568.9	6.2	5.4	1.000012
75500.0	32.9	-59.0			53.6	569.3	••	6.5	1.000012
76000.0	32.1	-59.3			52.3	569.7	356.6	0.9	1.00012
76500.0	31.5	-59°U			50.0	570.2	353.2	7.1	1.000011
77000.0	30.5	-58.6			49.6	570.6	351.2	7.5	1,000011
	24.6	-58.4			46.3	571.0	357.6	7.5	1.000011
78030.0	29.1	-58.5			47.1	571.2	4.4	7.6	1,000010

UPPER AIR GATA U253020365 HHITE SANDS TABLE V. (CONT)

> STATION ALTITUDE 5909.33 FEET MSL 25 JAN. 78 1145 HRS MST ASCENSION NO. 65

GEODETIC COORDINATES 32.40043 LAT DEG 106.37033 LON DEG

	ATP	ERATURE DEL BOINT	REL.HUM.	CHACHET	SPEED OF	WIND DATA	TA	INDEX
MILLIBARS	DEGREES	CENTIGRADE		METER	KNOTS	DEGREES(TN)	KNOTS	REFRACTION
20.4	-58.0			46.0	571.4	10.7	7.6	1.000010
27.7	-51.8			P. 44	571.1	15.1	6.5	1.000010
27.0	-			43.7		18.7	9.3	1.000010
20.4	-57.5			44.6		717	10.1	1.330309
25.8	-57.3			41.6	-	27.1	10.9	1.000009
25.2	-57.1			40.0		32.3	11.7	1.030009
24.5	-56.9			35.6		36.7	12.7	1.000009
24.0	-56.7	,		38.6		41.2	13.1	1.030009
23.4	-56.6			37.6	573	45.9	13.4	1.000006
22.8	-56.4			36.7		50.3	13.8	1. 330098
22.3	-56.2			35.6	573	47.5	12.7	1.000006
21.7	-56.0			34.9		36.9	10.8	1.00000
21.2	-55.8			34.0		22.5	9.5	1.00000
20.7	1-55-1			33.2	574	10.7	8.7	1.000007
20.2	-55.5			32.4		5.5	7.9	1.000007
19.7	-55.3			31.6		559.3	7.3	1.03007
19.3	-55.1			30.8		351.2	6.9	1.000007
18.8	6. 45-			50.0		335.9	4.9	1.000007
15.4	-54.7			29.3		3.56.8	11.4	1.000007
18.0	-34.5			28.6	570.1	320.9	14.0	1.09030
11.5	-54.3			27.4		:22.2	13.8	1.000006
17.1	-54.1			27.2	576.7	541.9	8.9	1,330006
16.7	-53.8			26.6		25.3	9.9	1.000006
16.3	-53.6			25.9		4.96	9.3	1.00000
15.4	-53.4			25.3		15.0	12.3	1.00000
15.6	-53.2			24.7	577	75.6	14.5	1.00005
15.2	-53.6			24.1	578	76.1	16.6	1.000005
14.8	-52.8			23.5	578	76.4	19.0	1.930005
	-52.6			22.9	578	9.90	16.3	1.000005
	-52.4			22.3	578	42.6	14.0	1,000005

STATION ALTITUDE 3989.JU FELT MSL U25JU20005 25 JAN. 76 1145 HRS MST UHITE SANDS ASCENSION NO. 65

GEODETIC COORNINATES 32.40043 LAT DEG 106.37033 LON DEG

ALTITUDE AIR DEWPOINT REL-HUM. DENSITY SPEED OF MIND DATA INDEX 47LITUDE AIR DEWPOINT PEKCENI SOUND CIRECTION SPEED OF 45LOGOLO 13.6 -52.2 CENTIGRADE REFECENT KMOTS REFRACTION REFRACTION 9.500.0 13.5 -52.0 22.0 21.8 579.1 34.7 12.9 1.7000005 9.500.0 13.5 -51.6 20.2 279.9 12.9 1.7000005 9.500.0 12.9 -51.4 19.3 579.4 12.9 1.7000005 9.500.0 12.9 -51.4 19.3 580.4 12.9 1.7000005 9.500.0 11.7 -50.8 19.3 580.4 9.2 11.1 1.000009 9.500.0 11.7 -50.8 11.4 -50.6 11.2 1.000009 9.500.0 11.4 -50.6 11.4 50.1 557.9 11.0 1.000009										
### DEWPOINT PERCENT GP/CUEIC SOUND CIRECTION SPEED ###################################	OMETRIC		TEMP	PERATURE	REL.HUM.		SPEED OF	WIND DA	TA	INDEX
FEET MILLIBARS DEGREES CENTIGRADE METER KNOTS NEGREES(TN) KNOTS REFR 500.0 13.6 -52.2 500.0 13.5 -52.0 500.0 13.5 -52.0 500.0 12.9 -51.6 500.0 12.9 -51.0 500.0 11.2 -50.4 500.0 11.2 -50.4 500.0 11.2 -50.4 500.0 11.2 -50.4 500.0 11.4 -50.4 500.0 11.2 -50.4 500.0 11.4 -49.7 500.0 11.4 -49.7 500.0 10.4 -49.7 500.0 10.4 -49.7 500.0 10.4 -49.7 500.0 10.4 -49.7 500.0 10.4 -49.7 500.0 10.1 -49.3 500.0 10.4 -49.3 500.0	TITUDE		A 1R	DEWPOINT	PERCENT	GP/CUEIC	SCUND	CIRECTION	SPEED	0F
13.6 -52.2 21.8 579.1 34.7 12.9 13.5 -52.0 21.3 579.4 19.6 12.8 13.2 -51.6 20.7 579.4 19.6 12.8 12.9 -51.6 20.7 579.6 10.4 12.9 12.9 -51.6 20.2 579.9 12.9 11.7 12.0 -51.2 19.3 580.2 9.2 11.2 12.0 -51.2 19.3 580.4 12.9 11.2 12.0 -51.2 19.3 587.4 12.1 11.6 11.4 -50.6 18.7 581.2 557.4 12.1 11.6<	L FEET		DEGREES	CENTIGRADE		METER	KMOTS	DEGREESCIN	KYOTS	REFRACTION
13.5 -52.0 13.2 -51.6 12.9 -51.6 12.9 -51.6 12.0 -51.0 12.1 19.7 12.2 -51.0 12.0 -51.0 12.0 -51.0 12.0 -51.0 12.0 -51.0 12.0 -51.0 12.0 -51.0 11.0 -50.0 11.0 -50.0 11.0 -50.0 11.0 -50.0 11.0 -60.1 11.0 -60.1 10.0 -60.1 10.0 -60.1 10.0 -60.1 10.0 -60.1 10.0 -60.1 10.0 -60.1 10.0 -60.1 10.0 -60.1 10.0 -60.1 10.0 -60.1 10.0 -60.1 10.0 -60.1 10.0 -60.1 10.0 -60.1 10.0 -60.1 <	9.500.0	13.8	-52.2			21.8		34.7	12.9	1.000005
13.2 -51.6 12.9 -51.6 12.9 -51.4 12.0 -51.4 12.0 -51.4 12.0 -51.4 12.0 -51.2 12.0 -51.2 12.0 -50.4 11.1 -50.8 11.2 -50.9 11.4 -50.6 11.5 -50.4 11.6 -50.1 11.7 581.5 10.9 -50.1 10.9 -49.9 10.9 -49.9 10.9 -49.9 10.9 -49.9 10.9 -49.9 10.9 -49.9 10.9 -49.9 10.9 -49.9 10.9 -49.9 10.9 -49.9 10.9 -49.9 10.9 -49.9 10.9 -49.9 10.9 -49.9 10.9 -49.9 10.9 -49.9 10.9 -49.9 10.9 -49.9	94000.0		-54.0			21.3		19.6	12.8	1,00005
12.9 -51.6 12.6 -51.4 12.6 -51.4 12.7 -51.2 12.8 -51.2 12.0 -51.2 12.0 -51.2 12.0 -51.0 11.7 -50.8 11.8 -50.0 11.9 -50.0 11.0 -50.0 11.2 -50.0 11.4 -50.0 11.5 -50.1 11.6 -50.1 11.7 581.6 12.7 11.9 10.4 -49.9 10.4 -49.9 10.4 -49.9 10.4 -49.9 10.4 -49.9 10.4 -49.9 10.4 -49.9 10.4 -49.9 10.4 -49.9 10.4 -49.9 10.4 -49.9 10.4 -49.9 10.4 -49.9 10.4 -49.9 10.4 -49.9 10.4 -49.9 <	94500.0		-51.8			20.7		10.4	12.2	1.000005
12.6 -51.4 12.3 -51.2 12.0 -51.0 12.0 -51.0 11.7 -50.8 11.4 -50.0 11.2 -50.0 11.2 -50.0 11.0.9 -50.1 10.0 -49.9 10.0 -49.7 10.1 -49.5 10.1 -49.	95033.0		-51.6			20.5		12.9	11.7	1, 13,336
12.3 -51.2 12.0 -51.0 11.7 -50.8 11.4 -50.6 11.2 -50.4 11.0 -50.0 11.2 -50.4 11.0 -49.9 10.4 -49.7 10.1 -49.3 9.9 -49.3 9.2 -46.4 14.3 563.7 14.3 563.7	95500.0		-51.4			19.7	580.2	9.2	11.2	1.000004
12.0 -51.0 11.7 -50.8 11.8 -50.6 11.9 -50.6 11.9 -50.6 11.9 -50.6 11.0 -49.9 10.9 -50.1 10.0 -49.9 10.1 -49.7 10.1 -49.7 10.1 -49.1	9.0000.0		-51.5			19.3	580.4	5.0	11.2	1.000 304
11.7 -50.8 11.4 -50.6 11.4 -50.6 11.2 -50.6 11.2 -50.4 10.9 -50.4 10.9 -50.4 10.9 -50.4 10.9 -50.4 10.9 -50.4 10.9 -60.4 10.9 -60.4 10.9 -60.4 10.9 -60.4 10.9 -60.9 10.9 -60.0 10.9 -60.0 10.9 -60.0 10.9 -60.0 10.9 -60.0 10.9 -60.0 10.9 -60.0 10.9 -60.0 10.9 -60.0 10.9 -60.0 10.9 -60.0 10.9 -60.0 10.9 -60.0 10.9 -60.0 10.9 -60.0 10.9 -60.0 10.9 -60.0 10.9 -60.0 10.0 -60.0	9.500.0		-51.0			18.8	7.030	1.1	11.6	1.000004
11.4 -50.6 11.2 -50.4 10.9 -50.1 10.0 - 49.9 10.0 - 44.7 10.1 - 49.1 10.1 - 49.1 10.1 - 49.1 10.2 - 46.4 10.3 - 46.4 11.4 - 581.5	97000.0		-50.8			18.3	501.0	357.4	12.1	1.990094
11.2 -50.4 10.9 -50.1 10.9 -50.1 10.6 -49.9 10.6 -49.9 10.4 -49.7 10.4 -49.7 10.7 -48.7 14.3 -88.7 14.0 -48.4	97500.0	11.4	-50.0			17.9	581.2	354.0	12.7	1.000004
10.9 -50.1 10.6 -49.9 10.4 -49.7 10.4 -49.7 10.4 -49.7 10.1 -49.5 9.9 -49.5 9.9 -49.3 9.0 -49.1 9.5 -48.9 9.2 -48.7 9.0 -48.4 14.0 584.0	9 4000.0		-50.4			17.4	581.5	354.5	11.9	1.000004
10.6 -49.9 10.4 -49.7 10.4 -49.7 10.1 -49.5 9.9 -49.3 9.7 -49.1 9.5 -48.9 9.2 -48.7 9.0 -48.4	98560.0		-50.1			17.0		355.9	10.9	1.000004
10.4 -49.7 10.1 -49.5 9.9 -49.3 9.7 -49.1 9.5 -48.9 9.2 -48.7 9.0 -48.4 14.0 582.9 15.4 582.9 14.7 583.4 14.3 583.7	0.00046	10.6	6.64-			16.0		357.5	6.6	1.000004
10.1 -49.5 9.9 -49.3 9.7 -49.1 9.5 -48.9 9.2 -48.7 9.0 -48.4 14.3 585.7 14.0 584.0	99500.0	10.4	1-44-			16.2				1.000004
9.9 -49.3 9.7 -49.1 9.5 -48.9 9.2 -48.7 9.0 -48.4 14.3 585.7 14.0 584.0	00000		-49.5			15.8				1. 100004
9.7 -49.1 9.5 -48.9 9.2 -46.7 9.0 -46.4 14.3 583.7	0.00000		-49.3			15.4				1.0000003
9.5 -48.9 9.2 -48.7 9.0 -48.4 14.0 584.0	0100010		1.64-			15.1				1,330003
9.2 -46.7	01500.0	6.6	6.34-			14.7	583.4			1.000003
9.0 -48.4 14.0 -984.0	32330.0		1.84-			14.3				1.030003
	02500.0	0.5	4.84-			14.0				1.000003

MANDATORY LEVELS
0250020065
WHITE SAMPS
TABLE VI.

MILLIBARS					100000000000000000000000000000000000000	-
	FEET	A IR DFGREES	DEWPOINT CFNTIGRADE	PERCENT	DEGREES(TN)	KNOTS
850.0	4971.	•	1.4-	. 94	302.0	1.2
9000	6559	-2.4	-12.1	47.	315.0	10.01
750.0	6235.	-2.0	-12.6	40.	32c.4	50.92
733.3	10029.	-2.3	-13.4	42.	331.9	34.4
650.0	11949.	-5.5	-16.1	43.	325.7	31.7
6,00.0	14000.	-7.1	-19.3	37.	322.1	41.5
550.0	16208.	-11.8	-23.7	36.	324.6	43.8
500.0	18576.	-17.8	-29.5	36.	319.4	44.6
450.0	21140.	-22.8	-34.3	34.	325.5	40.4
400.0	23936.	-29.5	-40.3	34.	323.8	47.6
350.0	27020.	-36.2	-46.5	33.	316.1	48.4
300.0	30474.	-43.6			278.6	8.64
250.0	34404.	-54.1			¿cb.7	55.7
200.0	39024.	8.09-				87.9
175.0	41758.	-59.5				4.42
150.1	44940.	-56.4				83.6
125.0	46710.	-26.9			216.7	9.49
130.0	53259.	-63.4			285.3	59.1
0.08	57712.	-67.5			266.1	40.5
73.0	60365.	-62.4			204.4	2002
0.00	63526.	-62.1			275.3	51.0
20.0	67196.	-6203			200.2	0.0
0.04	71727.	-61.4			310.2	80
30.0	77614.	-58.4			3.2	1.6
25.0	81389.	-27.1			36.4	13.0
20.0	8 60 40 .	-55.4			353.6	8.9
15.0	92095.	-52.9			0.00	10.2
10.0	100745.	t. 61-				

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE LAS USED IN THE INTERPOLATION.

STATION	ALTITUDE	STATION ALTITUDE 3951.40 FELT "SL	
25 JAN.	78	1145 HRS MST	

DATA			
SIGNIFICANT LEVEL	5000500000	APACHE	TABLE VII.

GFODETIC COORDINATES 32.62700 LAT DEG 106.34352 LON DEG

PRESSUR	ECMETR		RATLE	RFL.HUP.
	ALTITUDE	AIR		PERCEYL
ILLIBAR	SL FEE		ENTIGR	and the same of th
	•	0.4		29.3
	3	-	-12.4	34.6
850.0	5015.0	7	-13.4	36.0
		4	-14.0	35.0
	:	0.4-	-16.5	37.0
	N	-3.7	-16.6	30.0
	~	-1.4	-15.9	32.0
	7700	5	-17.5	27.0
642.8	2290	-5.1	-19.0	51.0
630.4	2793	0.4-	-23.6	0.02
574.3	5183	-8.5	P. 7.7-	20.00
500.0	8645	17	-35.3	14.0
459.3	0716	-20.6		10.0
400.0	400%	59	-46.4	17.0
377.3	5360	53		10.01
300.0	0531	43		
250.0	4458	53		
236.8	5893	50		
230.0	9373	9		
158.3	3856	58		
150.0	4967	57		
118.3	5486	29		
130.0	3247	-63.5		
81.8	7256	65		
10.0	0370	7.9		
64.8	1937	-58.6		
54.3	5514	. 49		
50.0	67174.6	-61.3		
30.0	7608			
	6028.	53.		

STATION ALTITUDE 5951.40 FEET MSL 25 JAN. 76 1145 HRS MST ASCENSION NO. 9

SIGNIFICANT LEVEL DATA 125-3053-309 APACHE

TABLE VII. (CONT)

TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET

4.1.4-

11.1 98515.8

REL.HUM. PERCENT

GEONETIC COORDINATES 32.62700 LAT DEG 106.39352 LON DEG

The state of the s

17

1110 36 3731	STATION ALTITUSE 3951.40 FEET MSL
11	1145 HRS MST

UPFER AIR DATA 3259050309 APACHE TABLE VIII.

v	(3	9
L	-	ш
-	C	0
Z	2700 LAT DEG	Z
H	4	0
Ş	-	_
C	0	2
C	0	5
C	-	3
		39
-		
-	·V	9
w	m	0
6		-
GEONETIC		

GEONETRIC	PRESSURE	TEM	PERATURE	REL.HUM.	DENSITY	SPEED OF	AIND DA	DATA	INDEX
ALTITUDE MSL FEET	£	A IR DEGREES	DEWPOINT CENTIGRADE	ERCENT	M/CUBIC METER	SCUND KA9TS		SPEED	OF REFRACTION
3951.4	8.403	3.4	-12.4	29.0	1111.0	6.849	350.0	0.0	1.000255
4000	483.2	3.7	-12.4	29.8	1110.4	648.5	349.6	5.9	1,330259
4500.0	366.8	7.1	-12.7	34.6	1099 00	9.5.9	344.9	6.4	1,000257
50000	650.5	2	-13.4	36.6	1004.3	1.44.	337.9	0.4	
5500.0	4.450	7	-13.7	35.5	1004.6	043.8	326.8	3.1	.03324
0.0000	418.7	9	-14.1	35.1	1045.4	643.5	:01.1	4.0	1.000243
0500.0	603.1	-1.6	-14.8	35.6	1029.5	642.2	293.8	5.0	•
7000.0	187.8	-2.7	-15.5	36.2	1013.8	641.6	313.0	7.7	1.000235
7500.0		-3.7	-10.3	36.8	998.3	639.8	327.6	11.8	1,000231
0.0000	158.1	-3.8	-16.5	36.5	9.616	639.6	336.8	18.9	.00022
9500.0	143.6	-3.43	-16.4	35.2	0.656	040.3	0	24.3	1,000222
0.0006	129.5	-2.1	-16.1	33.3	936.9	641.6	0	28.4	.00021
9500.0	115.6	-1.3	-16.3	30.9	910.2	9.740	358.2	30.5	1,000213
1000000	702.1	-1.0	-17.3	6.75	847.8	643.0	336.1	31.2	1.000208
10500.0	688.7	-1.7	-17.9	27.8	•	042.1	335.3	33.8	
11000.0	675.6	-2.7	-18.3	1.07	865.3	641.0	334.6	30.7	
11503.0		-3.6	-18.€	24.6	855.8	4.39.4	331.8	38.6	.00019
1,000.5	0.050	14.5	-19.3	30.5	842.4	638.7	329.4	40.5	
12500.0	9.160	-4.0	-21.0	26.4	826.7	638.6	327.6	45.4	1,000190
1,5000.6		7.7-	-23.9	7.0.	816.1	438.8	3.20.9	43.5	
13500.0		-5.3	-24.7	20.02	797.3	037.7	347.5	43.6	1.333182
14000.0		-6.3	-25.5	20.0	784.7	636.6	327.2	45.6	1.000179
14500.0		-7.2	-26.3	20.0	772.3	635.5		40.7	
15000.0	576.4	-8.5	-27.1	20.0	766.1	634.3	3.45.0		. 00017
12200.0	567.1	-9.3	-28.1	19.9	748.4	635.9	324.1	38.9	1.000170
16000.0	555.6	-10.6	-29.5	19.8	137.2	631.4	323.7	39.4	1.000167
10500.0	8.446	-11.8	-30.4	19.6	724.1	656.9	323.3		. 00016
17000.0	0.480	-13.1	-31.5	19.5	715.2	œ	-27	•	1.000162
17500.0	523.4		-32.7	19.3	4	56	321.5	43.5	. 00015
18000.0	513.1	-15.7	-33.8	19.2	0.469	625.2	319.9	44.5	1,000157

TATION ALTITUDE 2051 ALTERIA	00011300000	STANTENCE STEAMER
TOR SECTION OF	APACHE	32-42760 LAT NE
	TABLE VIII. (CONT)	106.39352 LON DEG

9	GEOMETRIC	PRESSURE	TEMP	PERATURE	REL.HUM.	DENSITY	SPEEU OF	AC ONIM	DATA	INDEX
=	ALTITUGE		A IR	DEMPOINT	PERCENT	GP/CUF IC	SOUND	LIRECTION	SPEEL	90
	MSL FEET	MILLIBARS	96	CENTIGRADE		METER	KNOTS	DEGREE SCTN)	KNOTS	REFRACTION
	10500.6	502.4	-16.9	-35.0	19.0	663.6	623.7	319.1	6.44	1.000154
	19000.0	492.8	-17.9	-36.1	18.5	672.3	٥	318.8	44.9	1,330151
	19500.0	482.8	-18.7	-37.1	17.8	8.099	621.5	320.4	45.9	1.000149
	20300.0	473.0	-19.5	-38.2	17.0	4.640	650.0	322.4	47.1	1, 13.9146
	26500.0	463.4	-20.3	-39.3	16.3	638.2	615.0	323.5	47.5	1.000143
	21000.0	453.9	-21.3	-40.3	16.1	627.8	610.4	324.4	47.6	1, 130141
	21500.0	****	-22.0	-41.3	16.2	618.6	010.6	325.1	47.5	1.000134
	22000.0	435.2	-24.0	-42.3	10.4	608.3	015.0	325.4	47.8	1,330136
	22500.0	426.2	-25.3	-43.3	10.5	596.8	£13.4	325.5	48.4	1.000134
	23000.0	417.3	-26.6	-44.3	10.1	589.5	0110	\$25.0	49.2	1,030132
	23500.0	408.0	-27.9	-45.3	16.8	580.3	610.2	324.5	50.1	1.000130
-	24000.0	400.5	-29.5	++9+-	17.0	571.3	6.800	523.3	51.5	1,000126
	24500.0	391.6	-30.0	1-41-1	16.6	502.4	8.909	322.1	52.2	1.900126
	25000.0	383.3	-32.0	-49.1	16.3	553.6	605.0	350.8	52.1	1.000124
	25500.0	375.1	-33.3	-50.0	15.6**	2. 44.5	003.4	319.6	51.9	1,030122
	26000.0	366.8	-34.3	-52.3	14.0**	534.9		318.8	51.3	1.900119
	26500.0	356.8	-35.3	-54.1	12.5**	525.4	6.009	318.1	50.9	1,909117
	27000-0	350.9	-36.3	-56.0	10.9**	516.1	9.655	317.5	8.05	1.000115
	27500.0	343.2	-37.3	0.84-	****	5.905	598.3	316.5	50.3	1,010113
	2000002	335.7	-38.3	-60.2	7.8**	497.9	597.0	315.1	49.5	1.000111
	24500.0	326.3	-39.3	-62.0	6.3**	489.1		513.3	48.7	1,000109
	29000.0	321.1	-40.3	-65.5	4.7.	480.4		311.3	47.9	1.000107
	29500.0	314.0	-41.3	0.69-	3.2**	471.9	593.2	509.5	49.7	1.000105
	300000	307.2	-42.3	-74.2	1.6**	463.6	591.9	307.3	51.9	1.000103
	30500.0	300.4	-43.3	-91.3	.1.	455.4	530.0	505.1	53.6	1,000101
	31000.0	243.5	-44.6			4.7.4	585.0	303.1	55.1	1.000100
	31500.0	236.8	-45.9			439.0	587.3	3.76.0	53.7	1.000098
	32000.0	280.2	-47.1			431.9	565.7	698.0	52.4	1.000096
	32500.0	273.0	148.4			454.4	584.0	7.45.6	21.4	1,939095
	33000.0	267.5	1.64-			417.0	582.4	243.2	2005	1.000093

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

	ALTITUDE 3951.40 FEET MSL	21.40 FE	T MSL	STATE OF	1R	DATA 0.9		GEODETIC	COURT
25 JAN. 78 ASCENSION NO.	8 NO. 9	1145 HRS	MST	71	APACHE TABLE VIII. (0	(CONT)		106.	32.62700 LAT PEG. 06.39352 LON DEG
GEOMETRIC	PRESSURE	TEME	PERATURE	REL.HUM.	DENSITY	SPEED OF	WIND DA	DATA	INDEX
ALTITUDE		A IR	DEWPOINT	PERCENT	GP/CURIC	SOUND	CIRECTION:	SPEED	0F
MSL FEET	MILLIBARS	DEGREES	CENTIGRADE		METER	KNOTS	DEGREES(TN)	KNOTS	REFRACTION
33500.0	261.4	-51.0			405.8	580.7	291.4	51.5	1,000091
34000.0		-52.2			402.7		289.7	52.6	1.000090
34500.0		-53.5			395.7	577.4	8		1.000086
35000.0		-54.6			368.4	575.9	567.6	. 9	
35500.0					381.2	574.4	287.3		1,000085
300000	232.2	-56.5			373.3	573.4	2.7.2	65.6	
36500.0	226.6	-57.1			305.4	572.0	287.9	9.99	1.000081
37000.0	221.2	-57.7			357.6	571.8	6.897	71.1	1.000080
37500.0	215.9	-58.3			350.0	571.0	290.7	15.5	1.330078
38000.0	210.7	-58.9			342.0	510.2	2.42.2	19.8	1.000076
38500.0	205.6	-56.5			35	569.4	293.8	83.0	1.000075
	200.7	-60.1			326.2	568.6	5.65.3	86.2	1.000013
39500.0	. 195.9	-60.1			550.5	568.7	295.1	87.4	1,000071
40000.0	191.1	-59.9			312.3	9	6.442	88.4	1.000070
43500.0	196.5	-59.8			304 00	569.1	643.0	-	1,00068
41000.0	182.0	-59.6			296.9	569.3	5.062	86.5	1.00006
41500.0	177.6	-59.4			289.0	508.5	1.187	4.56	1,93064
4.000.0	173.4	-59.3			282.4	509.7	4.482	-	1.000063
42500.0	169.2	-59.1				569.9	979	63.4	1,000061
43000.0	165.1	-59.u			(X)	570.1	500.5	85.2	1.000060
43200.0	101.1	-58.8			_	570.4	280.2	81.1	1.000056
44000.0	157.2	-58.5			255.2	570.7	280.5	80.0	1.000057
44500.0	153.4	-57.9			*	571.5	280.6	19.7	1.330055
4>000°C	149.6	-57.4			241.8	572.2	2.093	19.8	1.000054
45500.0	146.2	-57.6			•	9-176		0	1,000053
46000.0	142.6	-57.9			230.3	571.6		78.8	1.000051
46500.0	139.5	-58.1			225.5	5711.3	1.672	17.3	1.000050
47000.0					220.3	571.0	278.8	75.0	1.000049
47500.0	132.6	-58.5			215.3	-	6.773	12.5	0000
46000.0					210.3	570.4	276.9	** 69	1.000047

STATION ALTITES JAN. 78	TITUDE 39	1145 HRS MS	T ASL MST	TA	UPFER AIR DATA 0255050009 APACHE TABLE VIII. (CONT)	DATA 009 (CONT)		GE 0DETIC 32.6 106.3	DDETIC COORDINATES 32.62700 LAT DEG 106.39352 LON DEG
GEOMETRIC	PRESSURE	TEMP	TEMPERATURE	RFL.HUM.		SPEED OF	MINO OA	DATA	INDEX
ALTITUDE		A IR	DEWPOINT	PERCENT	GM/CURIC	SOUND	CIRECTION	SPEED	90
MSL FEET	MILLIBARS	DEGREES	CENTIGRADE		METER	KPOTS	DEGREES(TN)	KNOTS	REFRACTION
46500.0	126.3	-59.0			205.5	570.1	276.2	67.1	1.000046
4.0000.0	123.3	-59.5			200.7	569.8	276.3	1.99	1.000045
49500.0	120.3	-59.4			196.1	565.5	4.973	66.5	1.000044
500000	117.4	-59.8			191.7	569.1	276.8	67.6	1,339643
50500 · C	114.5	+·09-			187.5	568.3	277.2	68.7	
51000.0	111.7	6.09-			183.4		278.8	67.2	.0000
51500.0	109.0	-61.5			179.4	566.6	\$0000	4.59	
52000.0	106.4	-02.1			175.5	566.0	282.7	62.6	1,000039
52500.0	103.8	-62.6			171.7	565.2	285.2	59.0	
53000.0	101.2	-63.2			166.0	564.5	3.183	55.7	1.000037
53500.0	98.7	-63.6			164.2	563.9	289.1	53.2	1. 000037
54000.0		-63.9			160.3	563.6	4.067	50.8	1.000036
54500.0		-64.1			156.5		291.3	50.4	1,000035
55000.0	91.6	-64.3			152.6		291.7	51.0	1.000034
55500.0	89.3	-64.6			149.2	562.6	291.9	51.6	1, 100033
20000.0	87.1	8-49-			145.7	562.3	. :91.3	52.7	1.000032
56500.0	0.00	-05.0			142.2	562.0	290.8	53.7	1,339932
21000.0	82.4	-65.3			138.9	561.7	589.3	50.5	1.000031
57500.0	80.8	-050-			135.4	561.6	487.6	48.1	
20000.0	78.8	9.49-			131.7	562.4	585.5	43.7	1.000029
58500.0	10.9	-64.3			126.2		282.9	38.7	1.000029
24000.0	15.0	-63.9			124.6	563.6	\$60.6	34.6	1.000026
59500.0	13.1	-03.5			121.5	564.1	679.0	31.5	1.000027
0.00009	71.3	-63.6			118.2	564.7	1.113	28.8	1.000026
60500.0	9.69	+.70-			115.0	565.0	478.7	27.7	1.000020
61000.0	61.9	-61.1			111.5	567.3	\$ 19.8	26.7	1.000025
61500.0	06.2	-59.9			106.2	568.9	278.3	22.7	1.333024
0.00029	9.49	-56.4			105.0	510.3	£75.8	18.5	1.000023
0.00579	63.0	-59.6			102.8	569.3	5.997	13.1	•
0.00089	61.5	-60.3			106.7	568.3	539.0	8.2	1.000022

COORDINATES 2700 LAT PEG 9352 LOM DEG	INDEX OF REFRACTION	1,000022	1.000021	1.000021	1.000021	1.000020	1,000019	1.000018	1.903018	1.000016	1,303017	1.000017	1.000016	1.000016	1.000015	1.000015	1,031015	1.000014	1.00001	1.000014	1,000013	1.000013	1.000013	1.000012	1.000012	1,000012	1.000011	1.000011	1.000011	1.900011
GFODETIC COO 32.62700 106.39352	PEED	7.3	8.3	1.6		3 0	9.0	12.4	14.3	16.5	17.4	16.6	15.7	13.6	11.4	9.3	7.8	6.2	5.8	0.9	6.5	7.1	7.8	8.1	8.2	** 20	8.6	9.8	8.6	8.5
	WIND DATA DIRECTION S DEGREES(TN) K	199.1	165.0	174.4	185.4	202.0	753.1	270.4	281.2	489.3	293.9	2.963	299.4	5.865	296.5	1.95.4	298.5	303.1	315.9	230.7	342.9	349.2	354.4	1.2	4.7	17.9	23.7	28.2		35.5
DATA Cus (CONT)	SPEED OF SOUND KNOTS	567.3	566.4	565.4	504.4	563.4	565.6	566.7	567.2	567.5	567.7	968.0	568.3	568.6	568.8	569.1	₽.695	9.595	569.9	5.076	570.4	570.7	571.0	5711.2	571.5	571.0	272.0	572.3	72	574.8
UPPER AIR DATA U25UU5UGU5 APACHE TABLE VIII. (CONT)	DENSITY GM/CUBIC PETER	98.5	96.5	4.46	45.4	90.0		83.0	80.9	78.8	76.9	74.9	73.0	71.2	69.4	67.7	0.99	64.3	62.7	61.1	59.6	58.1	56.7	55.5	53.6	52.5	51.2	6.64	46.6	47.4
TA	REL.HUM. PERCENT																													
ELT MSL	EMPERATURE DEWPOINT ES CENTIGRADE								21	•	-				•	•			21	_										THE REST
3951.40 FEL 1145 HRS 9	TEM AIR DEGREES	-61.1		-65.5	-63.3	164.	167.4	-61.6	-61.2	-61.0	-60.8	-60.6	\$·09-	-60.2	-69.0	-59.8	-59.6	-59.4	-59.5	-59.0	-58.8	-58.6	-58.4	-58.5	-57.9	-57.7	-57.5		-57.1	-56.9
111LDE	PRESSURE MILLIBARS	0.09	58.5	57.1	55.7	54.3	51.7	50.4	49.2	40.0	40.9	45.7	9.44	43.5	45.5	41.5	40.5	39.5	38.5	37.6	36.7	35.8	34.9	34.1	33.3	32.5	31.7	30.9	30.2	29.4
STATION AL 25 JAN. 78 ASCENSION	GEOMETRIC ALTITUDE MSL FEET	63500.0	.000	64500.0	0.00059	65500.0	66500-0	0.00079	67500.0	0.00009	64500.0	0.00049	69500.0	200000	10500.0	2.00017	71500.0	72000.0	72500.0	75000.0	73500.0	74000.0	74500.0	75000.0	15500.0	76000.0	76500.0	-	77500-6	78000.0

3921.43 FEET 45L	1145 HRS MST
AL TITUDE	
STATION	25 JAN. 76

GE ODE TIC COORNINATES 32.62700 LAT NEG 106.39352 LON DEG

UPPER AIR DATA U250050000

TABLE VIII. (CONT)

INDEX OF REFRACTION	1.000010	1,000010	1.000010	1,00000	1.000009	1.000009	1.000009	1.000009	1.00000	1.000038	1.000008	1.000006	1.333308	1.000007	1.000007	1.000001	1.00007	1.000007	1.000007	1.000006	1,930006	1.000006	1.000000	1.000006	1.90303	1.000006	1.000005	1.000005	1. 100015	1.0000005
SPEED KNOTS	8.3	8.1	8.0	6.1	8.3	8.6	4.9	9.3	6.6	10.7	11.5	12.7	14.0	15.4	15.9	16.3	16.7	16.6	16.5	16.4	16.1	15.9	10.0	16.7	17.9	18.5	18.6	18.7	16.0	14.3
WIND DATA CIRECTION S DEGREES(TN) K	37.6	39.7	45.3	22.1	58.7	64.3	4.69	74.1	78.1	81.5	****	87.6	40.5	95.8	91.7	5.04	66.68	91.4	93.0	93.0	89.1	05.1	11.11	67.0	57.4	54.6	55.4	56.1	05.0	71.8
SPEED OF SCHND KNOTS	573.1	573.4	573.6	573.9	574.1	574.4	574.0	574.9	575.2	575.4	575.7	575.9	576.2	5.915	576.7	577.0	5711.3	517.6	578.0	578.3	578.0	0.516	579.3	1.576	589.0	580.3	530.7	561.0	581.3	561.7
DENSITY S RM/CUBIC METER	46.3	45.1	0.44	45.9	41.9	40.8	35.8	38.8	37.9	37.9	36.0	35.2	34.3	33.4	32.6	31.8	31.0	30.3	24.5	26.6	26.1	27.4	26.8	26.1	5.52	24.0	24.2	23.0	23.1	22.5
RFL.HUM. PERCENT																														
TEMPERATURE R DEWPOINT EES CENTIGRADE																														
TEMP A IR DEGREES	-56.8	-56.6	-56.4	-56.2	-56.0	-55.8	-55.6	-55.4	-55.2	-55.0	-54.8	-54.6	1-54.4	-54.2	-54.0	-53.8	-53.6	-53.3	-53.0	-52.8	-52.5	-54.3	-54.0	-51.8	-51.5	-51.5	-51.0	-50.7	-50.5	-50.5
PREŠSURE MILL IBARS	26.7	26.1	27.4	20.7	20.1	25.5	24.9	24.3	23.7	23.1	22.6	22.1	. 21.5	21.0	20.5	20.0	14.6	19.1	18.7	16.2	17.8	11.4	17.0	16.0	16.2	15.6	15.5	15.1	14.7	14.4
GEOMETRIC ALTITUDE MSL FEET	7.500.0	79000.0	74500.0	800000	80500.0	81000.0	81500.0	82000.0	82500.0	83000.0	83500.0	84000.0	84500.0	85000.0	85500.0	80000.0	36500.0	87600.0	81500.0	86600.0	84500.0	8,000.0	89500.0	0.00006	90500.0	0.00014	91500.0	0.00006	92500.0	0.00006

STATION ALTITUDE 3951.40 FEET MSL 25 JAN. 78 1145 HRS MST ASCENSION NO.

The sales

UPPER AIR DATA 0255050605 APACHE TABLE VIII. (CONT)

GF ODE TIC CORPOINATES 32.62700 LAT DEG 106.39352 LON DEG

INDEX	. 0F	REFRACTION	1.330305	1.000005	1.000005	1.000005	1.0000.04	1.000004	1.000004	1.000004	1.000004	1.000004	1.000004
TA T	SPEED	KNOTS	12.5	11.1	9.6	8.7	8.2	7.8					
WIND DA	DIRECTION	DEGREES(TN) KN	84.8	93.0	61.6	105.3	61.6	89.7					
PEED OF	SOUND	KNOTS	582.0	582.3	582.7	583.0	583.3	583.7	584.6	584.3	584.7	545.0	585.3
DENSITY	GM/CUBIC	METER	21.9	21.4	20.9	20.4	19.9	19.4	18.9	18.5	18.0	17.6	17.1
REL.HUM.	PERCENT												
ERATURE	AIR DEWPOINT PERCENT GM/CUBIC SOUND	CENTIGRADE											
TEMP	AIR	DEGREES	-50.0	-49.7	-49.5	7.64-	-48.9	-48.7	-48.4	-48.2	-47.9	-47.7	+· L +-
PPESSURE		MILLIBARS DEGREES	14.1	13.7	13.4	13.1	12.8	12.5	12.2	11.9	11.6	11.4	11.1
OMETRIC P	TITUDE	MSL FEET MI	93500.0	0.00046	0.00546	95000.0	95500.0	96000.0	96500.0	97000.0	97500.0	0.00086	98500.0
9	A	E											24

STATION ALTITUDE 3951.40 FELT MSL 22 JAN. 78 1145 HRS MST ASCENSION NO. 9

PANEATORY LEVELS 0250050009 APACHE TABLE IX.

SEODETIC COORDINATES 32.62700 LAT DEG 106.39352 LON DEG

PRESSIIRE	PRESSURE GEOPOTENTIAL	TFM	TEMPERATURE	RFL . HUM.	WIND DATA	ATA
		A IR	DEMPOINT	PERCENT	DIRECTION	SPEED
MILLIBARS	FEET	DEGREES	CFNTIGRADE		DFGREES(TN)	
850.0	5014.	3	-13.4	30.	337.6	3.9
800.0	0603.	-1.8	-15.0	30.	298.9	0.0
750.0	8278.	-3.7	-16.6	36.	336.9	55.5
700.	13077.	6	-17.5	27.	1.506	31.3
650.0	12005.	-4.6	-19.3	30.	325.4	40.0
0.009	14069.	4.9-	-25.6	20.	3-7-0	42.3
.550.0	16281.	-11.2	-29.8	20.	323.5	39.7
500.0	18653.	-17.3	-35.3	19.	319.0	44.9
450.0	21223.	-41.9	-40°-7	16.	324.7	9.14
400.0	24026.	-29.5	1.91-	17.	323.1	51.3
350.0	27106.	-36.4	-56.2	11.**	317.3	50.7
303.0	30561.	-43.4			304.7	53.9
250.0	34499.	-53.4			266.4	6.45
200.0	39128.	-60.2			295.3	86.7
175.0	41867.	-59.3			264.7	64.5
150.0	* * * * * * * * * * * * * * * * * * * *	-57.4			200.8	19.6
125.0	48809.	-59.1			276.3	46.7
100.0	53358.	-63.5			289.1	53.3
90.08	57832.	-65.0			282.6	43.8
70.0	60518.	-62.7				27.3
0.09	63670.	-61.1			166.4	0.9
50.0	67359.	-61.3			282.6	14.6
0.04	71922.	-56.5			305.9	5.8
30.0	77862.	-57.1	The second second		36.1	4.0
25.0	81661.	-55.6			73.9	9.3
20.0	86345.	-53.8			40.5	16.6
15.0	92452	-50.7			66.8	14.9

AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

TATION	ALTITUDE 4940.30 FELT OL	4943.33	FELT CL
JAN. 76	710	1145	1145 HRS PST

DATA			
SIGNIFICANT LEVEL	92533-3119	CTALLION	TABLE X.

TEC	DEG	DEG
An Int	LAT	LON
000	1920	0501
IC		0
DILIC	53	106
6.0		

PRESSI	SURE	E0 ME T9	TEM	10	_
		ALTITURE	AIR	DEMPCINT	PERCENT
WILLI3	ARS	SL FEE	GREE	NIIGRA	لء
- DC		0.1334		,	
1.353		0.0404	2.5	18.5	43.0
639		5290.9	٥.	5.	29.0
786.		6993.2	1	-15.7	40.0
703.		10395.6	-3.5	-16.9	5.67
622.		13313.2		24.	35.0
618.		13152.1	-8.0	23	27.0
548.		14441.0	1.8-	5-57-	10.0
539.0		18500.0	-17.0	37	12.0
481.		19415.6		-41.2	11.0
400.		23860.0	-29.6	-50.5	11.0
305		29690.3	3		
3000		50358.4	145.4		
250.0		34254.1	0.66-		
215.		57 324.9	-62.3		
2000		58817.9	-01.1		
105.		.2727.4	1.00-		
10.1.0		1333200	1.46-		
150.0		4743.0	0		
127.		+7710.4	4.86-		
140.		47972.5	1-20.5		
122.		6.3468	-24.5		
100.		3324.0	-65.1		
14.		0.00010	L. CO-		
13.		3.1539	10.00		
13.		0)11/200	1.10-		
1.0.1		26570.2	-64.0		
50.		17540.2	****		
20.0		15725.0		THEFT SAY	

						-			
57.61.68	A 11.1. C	4 0	100 11					ILBJUL	S EL CALTETES
25 JAN. 75		1145 HRS			In			•	1920 LAT NF
ASCENSICA "C	.c. 13			H	TABLE XI.			L	101
3,000,000									
GEOMETR 1 C	B dissidd	SCREE	3 SHITT NEE	FFL .HUM.	FENSITY C	du dini	1107 3113	T.A.	INUEX
				FRCENT	6	SOLLALI	DIA-CTION	SPEED	96
MSL FEFT	MILLIHARS	0	-		WETER	KILTE	CEERFES(TA)	KNOTS	FFFRACTION
4940.0	4.050	4.5	13.0	43.0	1075.2	6+17.5	313.0	6.6	1.037255
50000	646.5	2.2	9.6-	40.04	1072.	8.047	:11.5	10.0	.00025
5500.0		o.	-15.3	30.4	1.360.9	C.44.5	3.22.4	1.	1,797246
0.0000		-1.4	-15.3	33.6	1046.0	(+2.5	350.6		1.000243
0.6059	801.3	1.2-	-15.4	30.8	1031.4	6.040	337.4	14.7	1, 101239
0.0001	146.1	-4.1	-15.7	46.6	916.	6.96.3	337.2	17.2	1.000236
7500.0		2.4-	-16.1	36.1	1.166	4.650	335.1	23.0	1, 133231
0.0004	154.3	-3.9	-16.6	36.3	1.77.4	435.5		22.6	.00022
8500.0	141.9	-3.B	-17.2	34.5	1.856	0.650		25.8	1.330222
0.0004	127.7	-3.7	-11.7	32.7	946.6	635.7	339.0	28.9	.00021
9500-0		-3.6	-18.5	30.08	-	6.600	5.4.7	51.4	1.000213
700001	100.1	-3.5	-16.9	29.0	3.504	0.043		33.0	.00020
17200-0	. 080.5	9.4-	-14.5	30.0	897.1	0.38.0		34.6	
11000-0		-5.8	-20.5	31.6	£76.6	637.2	339.3	36.1	1.000202
11500.0		6.0-	-20.0	32.0	865.4	635.9			. 1.1919
1,000.0	4.143	-6.1	-21.5	33.0	850.5	6.45.3	:34.3	39.7	1,000195
12200.0		7-5-	-66.1	34.6	437.5	0.563	3.52.9	1.04	.noc15
13000.0		-10.4	-22.0	35.0	4. 42x	531.7	3 52 • 1	41.7	. 33318
15500.0		7.8-	-25.1	24.0	£0203	634.3	131.9	43.0	1.000183
14000.0	598.6	-8-	-27.5	14.8	787.5		\$30.8	45.2	.00017
14500-0		1.0-	-30°n	16.0	773.3	633.5	2.65:	40.0	
15000-0		2.4-	-30.9	15.9	700.9	032.2	48	47.7	. 13017
15500-0		-10.5	-31.9	15.7	40.	0.150	•		1.000169
1,000.0		-11.9	-32.0	15.6	•	0.450	-17	48.9	. 19316
10500.0		-12.9	-33.7	15.5	125.1	628.5	3:7.5	*	1.000163
17000.0		-13.9	-34.0	15.4	3.	027.3	-17	•	. 11:116
17500.0		-14.4	-35.5	15.4	105.2	620.1	26.	49.7	1.000158
S		-16.0	-30.5	J	691.3			8.10	1,111155
.500.	506.		-31.4		•	c23.c	.5.	53.3	10015
19003.0	440.0	-17.0	-39.4	12.0	601.9	0.720	52.	3.	1, 333150

v. E &

CI	4LT1T335	STAILOU ALTITUDE +9+0.30 FELT 45L
AR.	76	1145 FRS #ST

LFFER AIR DAIA
JESTJALTO
STALLICH
TABLE XI. (CONT)

33.01920 LONG LAT PEG 106.00501 LON 0EG

GEONETRIC	C PRESSURE	TEMP	PERATURE	RFL.HUM.	TE VSITY S	SPEEU OF	WIND DA	DATA	INDEX
ALTITUDE		A IR	05"P0 1 wT	PERCENT	SN/CHEIC	24102	CIRECTION	SPEED	90
MSL FEET	MILL IBARS	DEGREES	CENTIGRAME		METER	Krots	DEGREES(IN)	KNICTS	PEFRACTION
17500.	100.1	-10.5	-41.4	11.0	656.2	621.5	3.60.2	55.5	1.000147
20303.0	470	-19.6	-44.5	11.0	645.0	4.620	.97	52.0	1,330145
20,000.0		-20.4	-43.5	11.0	635.8	(18.c	126.1	51.9	1,000142
21333.0	4.23.4	-22.2	0.44-	11.00	525.3	011.0	5.5.4	75.70	1, 111110
21500.	0 +41.6	-23.5	-45.0	11.0	010.1	015.0	524.7	52.4	1, 131138
22000.0	432.5	-24.8	-46.0	11.0	604.5	014.0	323.7	52.4	1.000136
22500.	423.5	-20.1	-47.0	11.0	597.1	012.4	322.5	52.0	1, 000133
22000.		-27.4	7.84-	11.6	567.6	4.01.	321.1	51.6	1.000131
23500.		-26.7	1-64-	11.0	578.1	2.600	819.8	52.1	1. 130129
24000	347.6	-29.9	-51.0	10.7**	5.803	20700	318.6	53.2	1.000127
24500.		-31.5	-54.8	**8. ×	500.3	0.000	517.8	54.1	1,000125
25000.0		-32.5	-54.6	***	556.7	604.4	3+7.0	25.0	1.000123
	•	-33.7	-56.5	1.9**		036.0	516.5	54.3	1,130121
200000	364.6	-35.0	-58.5	7.0**	535.5	70107	3.04.5	53.3	1.000119
26500.		-30.5	-50.0	•	543.6	244.0	315.6	51.8	1,000117
27000-		-37.5	762.9	5.1**	514.4	3.86.	115.0	30.00	1.100115
27533.		-30.0	-62.3	4 - 1 * *	500.4	1000	514.2	20.00	1,000113
20000°		0.04-	-68.1	3.2**	498.0	3.465	313.2	50.5	1.000111
26500.		-41.5	-71.4	2 *	469.3	293.6	511.8	50.3	1, 199199
24000.0		-45.6	-75.9	1.5**		261.6	3.00.1	51.6	1. 100107
29500.0		-43.8	1.48-	***	473.3	293.0	507.9	53.1	1. 333196
300000		8.44-			405.3	1.386	505.9	54.3	1.000104
30500	6.367 0	1-65-7			455.5	537.5	504.1	55.4	1. 110102
31660.6		7.1.			446.0	5.52.	302.7	56.6	1.000100
31500.0	204.4	-43.4			** 777	5.46.5	\$11.8		1.339098
3,000.0		4.64-			432.1	1.203	301.0	59.3	1.000096
32500.0		1-27-1			455	231.1	230.7	61.0	1, 100095
330000	2	-51.9			417.4	575.5	#. po:	62.7	1.000093
33503.0	52	-55.1			410.1	577.0	4.462	0.40	1,110001
3+000-	0.553.0	1-54.4			402.2	2.016	4.66.	2.59	1.000090

** AT LEAST ONE ASSUMED RELATIVE FURINITY VALUE WAS USED IN THE INTERPOLATION.

COPER AIR CATA	94 1461226	TABLE XI. (CONT)
	STAILOW ALTIFULE 494 Jour FELT 151	ASCENSION NO. 17

3: 00.0110 000 01141ES 53.81920 LAT NEG 100.66531 LOW DEG

GEONETRIC	PPESSINE	TEWPERATURE	KEL.HUM.	AE WSTIY	SPECU OF	AC ONIH	DATA	INDEX
ALTITUDE		All OEWPOILT	PEFFEFF	71 3477 L		CINECTION		OF
MSL FEET	WILLIEARS	DEGREES CENTIGRAME		*ETES		0E38EEc(11)	RAICTS	PEF SACTICE
34560.6	247.0	3.00			2.412	4.8.5	9.90	1.00002
35000	ני	2000		2	113.1	293.2	1.10	1, 11,11,136
35560.6	235.3	-56.0		301.9	277.5	6.77.9	9.59	1.0000.85
36999.0		-56-		37.00	359.4	0.147	11.1	1, 111.33
3.500.0		-50.3		366.9	305	2.793	73.5	1.000082
37000.0		-61.5		565.1	1.50.7	230.8	15.2	1,000080
37500.0	413.4	-62.2		352.4	5.65.4	240.3	76.5	1.000.1
38000.0		-61.8		545.0	\$000	245.5	17.2	1.919.76
3c500.0	203.2	-61.4		534.2	267.0	6. 46 3	78.4	1.000074
39000.0		6.04-		325.3	557.6	7.44.7	80.2	1,00072
39560.0	193.5	-64.5		316.7	568.3	0.463	82.4	1.000071
4000000	188.8	-59.6		308.2	559.1	243.7	85.1	1.110369
40500.0		-59.5		306.0		: 93.0	96.0	1.000067
41000.0		-56.0		292.0	570.0	292.0	45.4	1, 110.165
4150C.C	175.5	-56.1		264.3		240.4	84.3	1.000063
426600	•	-51.5		211.7		4.003	213	1. 500167
42500.0	-	-57.0		204.5		2 dd.u	19.0	1.1111100
42000-0		-55.t		401.4		1.100	76.7	1.00005
43500.0	159.3	-55.4		254.0		20007	17.3	1, 197957
44000.0		-56.5		250.0		4.5.1	76.9	1.000056
44500.0	151.0	-57.E		645.		205.7	16.0	1.03305
42000-0	146.1	1.36.4		240.3	5.013	46232	15.0	1.000054
42230.0	9.441	-56.4		234.	÷.070	201.0	13.3	1. 13332
400000	7	158.4		226.5	1.70.4	1.4.7	72.4	1.000051
40500	,	-58.4		223.	,	219.5	71.0	1, 110.050
4.000.0	134.4	-56.4		216.0		6.19.3	71.0	1.70(049
47533.0	1.51.2	-58.+		112.0	1	219.5	70.0	1.117147
4.000.0	126.0	-56.6		505.9	573.3	3.012	70.0	1.000.46
4650:3.0	-	-58.7		202 • 3	2		70.5	1.131345
45000.0	-	4.65-		176.7	101.0	2.612	71.1	1.00004

CONTRUCT 4940.00 FEET "SL CESSUE ATS DATA No. 78 1145 HRS MST STALLIO. STALLIO.
11tue 4940.00 FEET "CL 1145 435 %ST

					L'FE AL				
0	TATION AL	STATION ALTITUDE 4940.00 FEET	40.00 FEET "SL			. 57		311 13030	000
N	15 JAN. 78		1145 HAS WST		STALLIO.			33.	33.01921 LAT OFF
-	ASCENSION NO. 19			H	TABLE XI. (CONT)	ONT)		106.	
	41903								
	EFOWF TKIC	PRESSINE	TEMPERATURE	F.EL. HUP.	ILE ESTLY	SPEFF OF	L'TAD CATA	1A	INUE X
	AL TATUDE		AIR DEMPOINT	PF 3CF "IT	71 FU3/12	S CHINE	DI SECTION	SOFFE	90
2	MSL FEET	WILL IE 195	DEGMEES CENTICRALE		4113·	VI OTS	CEFREFS(TA)	Y N O TS	FFFFFFTTICN
	44503.0	119.0	3.66-		194.5	554.3	214.1	71.5	1,113043
	50000.0		-60.3		150.0		4.675	71.8	1.000042
	50500.0		1.00-		135.3	100	274.9	71.1	1,130/111
	5100000		-61.2		leier	267.1	6.07	76.0	1.001640
	51500.0	107.8	-61.7		177.0	5.000	231.9	2.39	1. 130,40
	52309.0	105.2	-62.1		175.7	4.666	202.9	60.00	1. 100 139
	52500.0	102.6	-62.6		105.8	205.3	4.53.9	63.8	1.0000 36
	\$3000.0	-	-63.1		165.1	504.7	285.1	02.50	1. 130047
	53500.0	9.15	-63.3		165.1	264.5	7.907	61.1	1.000636
	54007.0	45.2	-63.6		158.3	505.4	207.5	29.7	1, 190035
	54500.0	6.26	-63.9		154.6	263.0	2.842	57.4	1.0006.34
30	52000.0		-64.1		151.3	563.4	238.9	55.5	1. 1.11034
	55500.0	66.3	1.40-		147.4		1.88.7	50°c	1.000033
	56303.0	3.00	-54.6		143.7	204.5	238.1	45.0	1.117332
	5.500.0	34.0	5.49-		146.6	50200	207.3	40.5	1.000.31
	57933.0	34.0	-93.06-		1.57.		200.1	36.9	1. 11. 1
	Situte:	4.51	4.69.		3.481		3.403	31.4	1.00002
	56303.0	76.0	104.4		130.1		233.6	29.0	1. 111129
	50500.0	76.0	-62.E		145.9		463.1	27.0	1.000028
	34737.5		-61.3		121.0		201.8	24.7	1. 1.10.127
	57560.0		00-7		110.0		1.012	7.37	1.000020
	61300.0	10.0	-61.0		114.0		. 417.1	20.1	1. 110000
	0.500.0		-61.62		113.2		4.412	7.51	1.000025
	61039.0	2.10	7.16-		113.5		471.6	10.4	1.111115
	01500.0	65.5	-61.3		11.1.4	207.0	411.5	19.3	1.0000.24
	62000.0	63.9	1.10-		105.2	20004	211.5	20.4	1.130023
	0.500.0	4.20	-61.5		107.7	0.000	471.2	21.5	1.000.023
	0.5300.0	5.00	0.10-		130.2	200.0	2/11.0	22.1	1.311022
	0.5000.0	25.4	-01.3		3.1.6		6.073	25.7	1.000.02
	0.000.69		2-19-		43.5	1.0007	211.4	23.1	1,00001

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STATION ALTITUDE +9+1.30 FELT OSE 25 JAN 70 11+5 FRS EST ASCENSION NO. 19

ASCENSION NO.	1,	11+5 FRS	151	TA	TABLE XI. (CONT)	ONT)		106.	33.615.0 LAT REG 106.60531 LON RFG
BEUMETRIC	PRESSINE	drai	TENDERATII SE	AF [. H'! ".	Dr 45 11Y	SPEFU OF	4170 0MIW		INDEX
ALTITUDE		A IR	DEP POINT	PERCENT	24 /Clib 16	24175	LIMICTION	STEED	10
4SL FEET	WILL IBARS	JESRFES	CENTION AUE		of FTE 8	× 0 T S	166465 5(10)	KANTS	PEFRACTION
64500.1	36.5	-01.4			43.5	2000	.73.1	23.6	1.000.21
62003.0	55.1	1020-			4.04	550.6	×- 14 - K	23.3	1.13.1220
0.00300	53.6	0.20-			61.7	0.300	475.4	23.1	1.0000.10
600000	36.5	-02.1			0.00	2000	210.1	22.5	1.411.114
9.00599	21.6	7.29-			64.5	100.E	5.063	22.0	1.1000.19
67000.0	49.9	-04.5			82.5	1.500	29002	21.1	1.11116
0.00619	40.7	-04.1			66.		281.1	19.4	1.000016
66000.0	47.5	6.10-			78.4	7.000	2,91.8	17.7	1.11111
0.90599	40.04	-61.7			16.5	566.5	20797	15.5	1.000017
69003.0	45.2	-61.5			74.5	1.555.7	202.1	13.4	1. man
0.00569	44.1	-61.3			12.0	v. 52.	466.9	11.4	1.000.10
73033.9	43.1	7.19-			73.4	20195	200.1	10.0	1. 133316
70500.0	. 42.0	-61.0			0.40	20702	.17.1	10.4	1.000015
71000.0	41.0	-00-			6.7.3	1.100	6.417	7. 5	1.111115
71560.0	40.0	9.09-			2.5.6	308.00	\$10.5	4.1	1.000015
7.000.0	25.0	4.00-			6.23	2.3K.4	216.5	2.4	1.11.14
7256600	50.1	-60.2				4.000	2.812	7.3	1.000.10
75.30.000	37.4				1.09	1.63.	242.0	2.6	1.000.1
72560.0	30.3	3.40-			2.50	20801	350.5	3.7	1.000013
74303.0	35.4	-59.7			57.7	20902	7.	3.5	1, 190013
74560.0	34.5	-54.5			56.3	5.66.	6.67	4.4	1.000613
7,000.7	33.7	-59.7			6.46		40.3	6.3	1, 130312
75560.0	35.9	-50.1			5.50	276.6	0.04	F. 1	1.00012
76300.0	32.1	-58.9			52.1		01.9	10.4	1, 111012
76500.0	31.3	1.05-			₹50.6	276.5	30.00	13.2	1.000.011
77303.0	30.5	-58.5			100	510.7	10.1	1001	1.111111
17506.0	25.5	-56.3			40.3	3711.6	15.4	17.1	1.000011
78799.0	24.1	-58.1			47.1		13.1	17.4	
7.500.0	4.02	4.12-			2.44	41	13.6	17.7	1.00016
79330.0	27.7	-51.0			4. + +	571.5	95.8	15.8	1. 131510

UPFER AIF PATA

TABLE XI. (CONT)

STATION ALTITUDE 4740.JU FEET 45L 20 JAN. 7c 1145 HRS MST ASCENSION NO. 19

33.81920 LAT NEG 100.00531 LON 0FG

GEOMETRIC	POESSINE	TEMPERATURE	KFL.HUM.	KEL. HUM. DENSITY SPLED OF	PLED OF	ATAC CHIM	TA	INDEX	
ALTITUDE		AIR DEMPOIST	PERCENT	GEVENE IC	SCLNE	CIRECTION	STELL	0F	
MSL FEET	MILLIBARS DEGREES	35		METER KOTS	KOOTS	JESKEES(TE)	KAIOTS	NULLDVOLLON	
7,500.1	27.0	-57.4		45.7	576.6	E • 44	13.0	1.000010	
80000.0	20.4	-57.5		48.0		19.8	12.3	1. 130.149	
80500.0		-56.9		41.5	3.212	3.56.5	13.3	1.000069	
81000.0		-56.7		40.0		433.9	13.	1, 1111114	
61500.0		1.00°		3.5.5		351.1	13.6	1.000009	
82000.0		-36.4		38.30	573.0	5+3.4	13.7	1. 113379	
3.500.5		-56.0		37.5		30005	12.5	1,000006	
83000.0		-55.6		30.6		11.4	11.2	1. 133378	
83506.0		-55.5		35.7	1.4.7	4.0.4	11.6	1.0000.08	
84000.0		->5.3		54.6				1. July	
84500.0		-55.1		33.5				1.000000	
85000.0	20.1	-54.6		55.1	272.6			1. 131317	
85500.6	. 26.2	-54.6		36.6				1.000007	

AN INATORY LEVELS

51 . . . 71 727 TABLE XII.

STATIC' LLTITLUE ANNUAUC FEET 'SL 25 JAN. 78 1145 HRS MST

1,

ASCETISION PO.

1145 HRS 4ST

STORETTO COMBINATES 33.01923 LAT MEG 106.66501 LON PEG

TEGRESCTON SPEED 4.9 4.5.4 5.70 3.0 9.1.6 5.6.3 1.99 5.5 4 11.0 24.1 . 301 15.1 1:06 19.6 6.77 3.4 17.3 44.1 J. C. 1001 WINE FATA 337.9 315.0 244.0 362.6 210.2 316.8 243.3 8 - 2 3 2 264.0 201.0 331.6 279.4 8-17 \$23.3 \$13.4 ** 1. 4 325.7 40.57 6.415 61115 REL. FUF. PERCENT LEURETS CFATIGRAFF TAINAWER -10.4 -16.9 -21.3 -27.2 1.6--15.4 -53.5 -37.4 -35.0 9.44.-TINFFFATIRE 1.3. 5.2--63.1 4.21--12.1 -42.5 - 5 9 ot -55.0 -17.0 -26--61.1 YIV -37.4 7.64--61.1 ->8·-4.54--n1.6 -620-1000-PRESSUPE GEOPCIFICIAL .940. 6545. 4217. .956. leges. 11911. 0147. 1516. 21036. -35ct 20901. 1391. 34240. 41017. 4+563. . 66661 117.11. 32876. 5,140. . 07976 00324. 03401. 47161. 17607. 31305. FEET 753.3 9.004 350.0 155.0 25.1 200.7 175.0 16.01 20.0 800°C 653.9 453.3 0.001 653.3 300. 250.3 63.3 61.1 100.0 0.009 0.005 PILLIMAPS

AT LEAST OWE ASSUMED MELAFIVE HUTILITY VALUE LAS USED IN THE 1 HTT STOLATION.

coop 1.

STATION	ALTITUDE	4001.30 FEET ASL	
25 JAN. 78		1300 HRS MST	

DATA			
SIGNIFICANT LEVEL	u250J3JJ26	JALLEN	TABLE XIII.

GFODETIC COORNINATES 33.16712 LAT DEG 106.49511 LON DEG

SSURE	GEONETRIC ALTITUCE MSL FEE1	TEMPE A1R DEGREES	ERATURE DELPOINT CENTISPADE	REL.HUM. PERCENT
	4051.0	6.3	.0.01	41.0
	4358.0		O	41.0
	4939.5	2.1	5.3-	7.44
	5139.0	2.3	-8.7	45.0
	7734.7	-2.5	-13.3	45.0
	8377.0	-1.1	-12.0	
	10025.4	-2.2	-15.4	30.0
	111106.8	P. 4-	-10.3	40.0
	13247.0	7.0-	-20.0	32.0
	18571.3	-16.3		23.3
	19325.9	-17.3	•	5
	23935.0	-29.9		-
	25959.6	-35.2	•	21.0
	20412.3	-46.6		
	34291.5	1.56-		
	57.364.7	-59.3		
	2.06886	4.84-		
	39325.8	-59.5		
	40316.8	-		
	44816.5	•		
	46289.8			
128.6	+7901.3	-61.6		
	51441.6	.50		
	53030.3	-		
	56411.3	-54.1		
0.	60278.4	9.70-		
	62514.7	-26.6		
	66380.2	164.0		
	67089.3	70		
	74925.8	-58.5		

151	ST	
FELT	HKS R	
STAILON ALTITUDE 4001.30 FEET 4SL	1300 HRS MST	
JL6711		NO. 2
A	7	NOI
STAILON	25 JAN . 76	ASCENSION NO.

GFODETIC COORDINATES 33-16712 LAT DEG 106-49511 LON DEG	INDEX OF PEFRACTION	1.006263
GF ODET I	SPEED KNOTS	2.9
	WIND DATA CIRECTION SPEED PEGREES(IN) KNOTS	140.0
ATA S	4	1093.6 c51.8 1086.5 048.5
UPPER AIR DATA J25J05J02S JALLEN TABLE XIV.	REL.HUM. DENSITY SPEED OF PERCENI FRICUPIC SCUNF METER KNOTS	1086.5 048.5
J AT	REL.HUM. PERCENI	41.0
7 45L	GEONETRIC PRESSURE TEMPERATURE REL.HUM. DENSITY SPEFO C ALTITUDE AIR DEWPOINT PERCENT GM/CHPIC SOUND MSL FEET MILLIRARS DEGREES CENTIGRADE METER KNOTS	-6.0 41.0 -8.2 41.7
1300 HKS WST	TEMP AIK DEGREES	3 M C
TITGUE 435 NO. 24	PRESSURE MILLIPARS	276.7
STATION ALTITUJE 4351.33 FEET 4SE 25 JAN. 76 1300 HRS MST ASCENSION NO. 24	GEOMETRIC PRESSURE ALTITUDE MSL FEET MILLIBARS	4500.0

AL	ALTITUBE		A IK	DEWPOINT	PERCENT	GF/C"PTC	SCURF	CIRECTION	SPEED	90
5	MSL FEET	MILLIPARS	DEGREES	CENTIGRADE		METEK	KNOTS	DESKEES(TW)	KNOTS	PEF PACTION
	+C51.0	1.910	6.3	0.9-	41.0	1093.6	4.163	140.0	2.9	1.006263
	4500.0	004.5	3.5	-8.2	41.7	1086.5	0.8.0	122.1	.7	1.939258
	500000		2.1	8.8-	44.3	1071.9	6.46.E	334 et	1.8	1.000255
	5503.0	052.1	5.1	-7.3	1.44	1054.5	6.510	364.6	4.5	1, 110250
	0.0000	016.4	• 5	-10.2	44.5	1037.5	5.44.3	3.2.6	9.9	1.000245
	6500.0	0.100	** -	-11.1	0.44	1021.6	043.0	517.2	6.3	1,000241
	10000	185.9	-1.2	-14.0	43.6	1065.6	642.0	318.5	3.6	1.000236
	1500.0		-4.1	-12.9	43.2	6.686	641.7	550.5	10.1	1,930232
	0.0000	156.5	-1.9	-13.0	42.2	970.5	642.0	3.5.0	13.7	1.000278
	8500.0	742.1	-1.5	-12.8	40.0	6.646	042.0	3<8.6	17.9	1,000223
	20004	126.0	-1.5	-13.6	39.1	932.7	642.4	333.0	24.4	1.001219
3	7500.0	714.2	-1.8	-14.4	37.6	916.1	0.740	355.4	56.62	1.93.1214
5	100001	1.001	-2.2	-15.2	36.1	6.568	641.6	3.57.0	33.1	1.000210
	13500.0	587.3	-3.3	-15.7	37.8	386.5	040.2	336.0	34.4	1, 13,1207
	11000011	5.44.5	-4.5	-16.2	39.6	673.5	638.8	3,53.5	35.5	1.000204
	11500.0	061.2	0.8-	-16.9	30.5	858 .3	633.2	331.6	36.4	1, 133210
	1,000.0	040.5	-5.3	-17.5	34.1	r42.7	637.9	330.1	37.7	1.001196
	12500.0	0.050	15.0	-18.0	34.8	827.4	6.37.5	351.2	59.5	1,930192
	13000.0	623.8	-5.4	-19.5	35.4	612.3	637.6	3.53.2	40.5	1.000180
	13500.0	011.6	-6.5	-20.6	31.0	798.5	030.4	353.6	41.1	1.000184
	14000.0	9.650	-7.5	-21.7	56.7	705.0	635.4	333.5	41.0	1.000181
	14503.0	287.4	4.8-	-22.9	59.9	773.0	034.1	531.3	7.0*	1.933177
	15000.0	576.2	5.61	-24.1	29.6	760.7	6.25.9	3.8.5	39.2	1.000174
	15530.0	9.400	-10.4	-25.4	28.82	748.5	031.7	3.5.6	38.6	1,11541.1
	10000.0	553.6	-11.3	-56.4	61.3	736.5	130.5	323.4	38.6	1.000166
	16500.0	545.9	-12.3	-27.0	20.5	124.7	629.3	321.8	38.9	1,730165
	1,00001	532.2	-13.3	-28.8	1.5.	713.1	626.4	341.5	39.4	1.000162
	17503.0	521.7	-14.2	-30.0	24.6	701.7	0.77.0	320.6	40.5	1,033159
	1000001	21	-15.2	-31.2	24.6	6.069	6.623	310.6	42.0	1.000156
	18500.0	501.4	-16.4	-32.4	23.1	619.5	9.479	219.0	44.2	1,010154

STATION	STATION ALTITUDE 4001.00 FEET 45L	4021.00	FEET ASL
25 JAN . 78	7.8	1300 HRS MST	RS MST

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			TABLE XIV.

GEODETIC COORTINATES 33-16712 LAT DEG 105-49511 LON DEG

TEMPER	ATURE	AFL.HUM.	DE NS ITY	SPEEG OF	MIND DA	DATA	INDEX
AIR DE	DEMPOINT	PERCENT	RETER METER	- 6	CIRECTION DESREES(TN)	SPEED	PEFRACTION
	-34.1	7.73	607.7	1.23.7	318.8	46.6	1.006151
	-35.7	19.1	656.5	62; c	118.6	40.5	1.006142
	-36.7	19.3	546.4	021.0	\$13.5	45.7	1.73.146
	-37.8	19.5	6.950	(15.5	317.3	0.44	1.000143
	-38.8	19.7	625.3	017.6	514.2	45.8	1,030141
	-39.9	14.9	617.2	615.9	315.5	6.40	1.000139
	6.04-	20.2	6.700	2.410	314.3	45.0	1,333136
	-42.0	50.4	5.466	412.5	313.4	45.7	1.006174
	-43.1	20.0	589.4	610.9	312.7	40.2	1. 110132
	-44.1	8.02	500.5	1.504	312.0	46.9	1.000130
	-45.2	21.0	571.6	4.16.0	311.4	49.2	1.000128
	4.94-	,1.C	562.4	6.05.0	310.8	51.6	1.000126
	-47.5	21.0	553.3	6.34.1	3.9.8	53.3	1, 333124
	9.34-	41.0	544.4	6.12.5	3.805	1.40	1.000122
	8.64-	20 · 8**	535.6	6.00.3	237.1	53.4	1,030120
	-51.9	18.5**	526.6	7.655	3.5.5	21.6	1.000.118
	-54.1	10.1**	517.1	5.47.6	502.3	1.61	1.11116
	-56.5	13.7**	20.505	5.66.€	:66.1	48.1	1.000114
	0.65-	11.4**	500 .4	59466	297.3	53.1	1.033112
	-61.9	**0.6	492.0	1.254	1.963	55.5	1.000110
	-65.1	6.7**	483.2	291.0	295.8	55.3	1. 133138
	2.09-	4.3**	475.7	7.634	5.562	28.4	1.000106
	-75.4	1.6**	467.7	1.67.7	6.543	59.1	1.000104
			459.8	586.1	245.9	29.8	1, 00102
			451.5	584.6	1.645	4.00	1.000101
			443.3	533.1	5.567	61.0	1,000099
			435.3	561.5	295.3	65.5	1.000097
			427.4	530.0	245.2	64.2	1,000095
			417.7	578.5	255.3	6.90	1.000093
			412.2	576.8	295.7	70.8	1. 103392

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USET IN THE INTERPOLATION.

STATION ALTITUDE 4051.00 FEET #SL 25 JAN. 78 1333 HAS 4ST ASCENSION NO. 20

UPPER AIR DATA

L250C3CO28

JALLER

TABLE XIV. (CONT)

J3.16712 LAT DFG 106.49511 LON DEG

397.0 574.1 566.7 573.3 500.0 572.4 572.5 572.4 364.7 570.7 597.1 559.0
331.0 570.6
323.0 570.6
315.7 570.2
291.3 572.4
205.3 571.3
259.2 571.1
241.7 576.5
235.7 570.2
230.4 570.1
225.2 369.6
223.5 566.6
215.9 507.6
1 . 4
206.5 566.2

TAN TAN TAN HRS RST	MOILA	AL TITOUE	STAILON ALTITUDE + JUL - DU FEET MEL	
	ES JAN. 70	76	1300 HRS 15T	

	GUNDETIC COORDINATES	33.16712 LAT DEG 106.49511 LOW DEG	
UPFER AIR HALA	3201330128	JALLEN TABLE XIV. (CONT)	
	FELT MEL	HRS FST	

GEOMETRIC	PRESSURE	TEMP	PERATURE	REL HUM.	YTTSW 30	PEFO OF	TAO ONIN	T.A.	XJUNI
LTITUDE		A IP	1	PERCERT	-	SCUND	LIMECTION	SPEFF	0.5
MSL FEET	WILL 18A4S	DEGREES	CENTIGRADE		METER	Krots	DEGREES(TW)	KNOTS R	REFRACTION
47000.0	122.1	-62.2			261.7	205.4	4.017	62.2	1.000045
44533.0	119.1	4.79-			197.3	505.5	278.1	0.09	1.000044
200009		-62.7			192.4	565.1	0.003	28.0	1.000043
500000	113.4	103.0			187.4	0.400	20802	2.95	1, 150042
51000.0		-63.3			163.6	564.4	0.482	55.4	1.000041
51500.0	107.9	-03.4			179.2	20406	245.2	55.8	1,00046
2.00026	105.2	-62.b			174.7	565.1	200.1	55.5	1.000039
52500.0	192.1	-62.1			109.5	560.0	4.007	54.5	1. 300036
53000.0		-61.4			164.6	1.66.6	206.5	51.6	1.000137
53500.0		1.10-			163.5	501.5	9.007	45.1	1.99038
54000.0	95.3	1-09-			156.4	207.6	4.422	38.6	1.000035
54500.0		4.09-			152.3	2.900	282.1	32.6	1.030034
55000.0		-60.1			148.4	1.562	8.013	26.7	1.000033
55500.0		1.96-			144.6	509.1	276.3	25.4	1,339032
5c000.0		1-56-4			140.8	20805	414.2	25°C	1.0000.1
50533.6		7.65-			137 . 3	559.9	<72.4	25.5	1,000131
5,000.0	65.30	1.95-			134.3	568.4	271.0	2.07	1.000036
57500.0		1-09-			131.3	50000	4.012	27.1	1. 220029
5.000.0		-66.6			140.4	5.67.9	270.7	47.1	1.000029
50500.0		-61.1			125.5	567.5	211.6	27.2	1. 133328
5,0000		-61.6			1.2.6	1.00:	415.3	27.7	1.0000.77
57500.0		-64.1			1.0.0	500.0	8.013	26.4	1.000027
0.00009	71.0	-62.5			117.4	10500	250.4	27.7	1. 10:0026
9.00509	04.5	-62.4			114.4	5.53.6	462.9	27.6	1.000.025
01000.0	0.70	-01.4			1111.2	2000	605.0	24.5	1. 103325
61500.0	4.50	-60.5			106.0	1.203	661.7	21.2	1.000024
0.2000.0	04.3	-59.6			104.9	104.4	6.617	10.0	1,003323
9-500-0	62.7	-58.6			101.0	: 70.e	2.17.2	15.5	1.000003
63000.0	01.5	-59.5			1.66	204.7	413.6	13.0	. 1, 993322
9.500.0	54.	-60.0			97.6	266.4	411.2	11.6	1.000072

130 HOL 1301 HOL MAI 30

UPPER AIR JATA CZSUUSCOSE JALLEN TABLE XIV. (CONT)

33.16712 LAT 9EG 33.16712 LAT 9EG 106.49511 LON PEG

	GEOWETRIC ALTITUDE MSL FEET	PPESSURE MILLIFAPS	A I PEGR	TEMPENATURE R DEWPOINT EES CENTIGRADE	KEL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEEL OF SOUND KROTS	WIND DATA SECTION S	SPEED SPEED	INULX OF FFRACTION
	64900.0	56.3	60.7			95.5	6.703	4.607	10.8	1.300321
	64500.6	56.6	-61.4			43.5	566.9	208.2	6.6	1.000001
	65030.3	55.5	-62.1			41.5	560.0	270.0	9.6	1.930020
	05500.6	24.1	-62.8			0.4.0	365.1	471.9	7.6	1.000020
	60060.0		-63.5			87.7	504.1	276.1	9.6	1.000020
	0.500.0	51.5	-63.7			1.60	563.E	481.3	10.8	1.000019
	0.00000	50.5	1-29-			63.1	565.2	4.602	12.0	1. 130019
	9.500.0	44.0	-62.3			6.09	1.65.1	288.4	13.2	1.00001
	600000		-64.0			76.7	566.1	2.045	14.3	1.000018
	68530.0	40.0	1.10-			76.9	20505	242.8	15.2	1,000017
	0.00069	45.5	-61.5			74.9	246.8	6.545	13.5	1.000017
39	64500.0	** **	7.10-			13.3	567.2	6.94.2	12.0	1. 100016
	1,000.0	. 43.3	6.09-			11.1	567.6	305.7	10.4	1.000018
	73500.0	42.3	-60.0			09.3	507.4	315.0	6.9	1,000015
	7,000.0	41.2	+.09-			6.1.5	506.3	:27.5	7.8	1.000015
	71503.3	40.2	-60.1			65 - 69	558.7	335.2	7.7	1,333015
	7.000.0	54.3	3.65-			64.1	268.0	336.4	6.2	1.000014
	7.500.0		-59.5			65.5	569.4	337.5	9.8	1.00001
	730000	37.4	-54.3			6.09	2080E			1.000014
	73500.0		-56·n			39.3	573.1			1.000013
	74000-0	35.6	-58.7			57.4	5,010			1.000013
	74500.3	34.7	-58.4			56.3	510.9			1.000013

STATION ALTITUDE +0>1.JO FEET MSL
25 JAN. 78
1300 HRS MST
ASCENSION NO. 28

FANCATORY LEVELS
JALLEN
TABLE XV.

GEODETIC COORDINATES 33.16712 LAT DEG 106.49511 LON DEG

			A	R DEWPOINT	PERCENT	CIKECTION S	SPEED
MILI	MILL IBARS	FEET	DEGREES	CENTIGRADE		DEGREES(TN)	KNOTS
	850.0	4939.	2.1	6-8-	* ##	336.5	1.6
	800.0	6538.	3.1	-11.2	***	316.9	9.5
	750.0	8224.	-1.4	-12.8	41.	326.4	15.3
	733.0	10026.	-2.4	-15.2	30.	357.1	35.4
	650.0	11943.	-5.3	-17.7	37.	336.3	37.6
	0.009	14000.	4.7-	-21.7	31.	353.4	41.0
	550.0	16205.	-11.7	-26.8	21.	322.7	36.7
	500.0	18580.	-16.3	-32.5	23.	319.0	1.44
	450.0	21155.	-22.2	-39.1	20.	315.8	2.40
	6.004	23452.	-29.9	-45.1	21.	311.4	49.1
	350.0	27022.	-37.8	-54.1	16.**		1.61
	300.0	30444.	9.94-				59.8
	253.0	34333.	1-55-1				81.4
	200.0	38946.	-28.4				76.3
	175.0	41709.	-57.5				80.9
	150.0	44894.	3.35-				74.7
	125.0	48628.	6.19-				63.4
	100.0	53143.	-61.4				46.0
	80.0	57712.	60.5				27.1
	70.0	60427.	-62.8				26.8
	60.0	03581.	-59.8				11.2
	20.0	67277.	-62.5				13.1
	4.7.1	7:831	-40			7 722	6 9

AT LEAST ONE ASSUMED RELATIVE HUPIDITY VALUE LAS USED IN THE INTERPOLATION. *